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dat Download it! MeshMixer In the series Autodesk123D, Meshmixer is a software adapted to modeling and sculpting for 3D printing. Please note, we have listed our top engineering design software, tools, and apps here, in no particular order. 00 6-19 users: \$149 20-49 users: \$199 50-100 users: \$299 49. This software tool combines visualization and presentation software for easy-to-use presentation and design exploration tools for designers, engineers, and others. Drawing feature where you can either export your file or draw your own 2D object directly, Modeling feature and rendering features, the main option that makes Design SE 3D so easy and fun to use. ” For more advanced industrial designers, ANSYS SpaceClaim is available for creating, editing, and repairing 3D models. Key Features: 3D solid modeling Large assembly design Sheet metal design Weldments Plastic and cast part design Mold design Cost: Contact for a quote 38. 99/month annual plan paid monthly, or \$599. Also, a nice feature specific to sketchup is its link with Google earth, you can directly use the app to create your design. FreeCAD A general purpose parametric 3D CAD modeler, FreeCAD is an open source industrial design software tool specifically geared toward mechanical engineering and product design. Also, various interactive tutorials will give you tips to model your design and to use these software tools. Wings 3D is an open source, free tool for use in personal and commercial projects. learn more >> ZW3D, powered by the unique Solid-Surface Hybrid Modeling, can speed up the product process and boost design productivity with the shortened learning curve and the flexibility of design. This industrial design software tool is “aimed to help the processing of the typical not-so-small unstructured models arising in 3D scanning, providing a set of tools for editing, cleaning, healing, inspecting, rendering, and converting this kind of meshes. Key Features: Capture your ideas digitally, quickly create 3D concept models, get feedback from stakeholders, and easily manage multiple concepts before committing engineering time to building a prototype Combines subdivision surface modeling and parametric modeling, resulting in a flexible, instinctive solution Include Platform Contributor to easily save information in a safe, secure environment Includes intuitive freehand sketching, simplified design evolution, realistic rendering, and more Cost: Contact for a quote 36. In fact, Fusion 360 is “the first 3D CAD, CAM, and CAE tool of its kind. It’s a very simple modeling platform to use, and it’s free. OBJ, VRML or Povray Download it! Blender Blender is well known for its steep learning curve, however, it is very powerful. Form-Z Pro is based on advanced 3D

solid and surface modeling methods for maintaining accurate representations from design to visualization, layout, animation, and fabrication. Illustrator CC gives users access to new tool features as soon as they are released. Rhino @bobmcneel Rhino 5 is the world's most versatile 3D modeler, available for Windows and Mac. 88/year prepaid All Apps + Adobe Stock: \$79. It is an accessible design program, with a friendly user interface. PCSHEMATIC Automation @PCSHEMATIC PCSHEMATIC Automation is a top choice for electrical engineers looking for an intelligent electrical design software solution. If you are in need of a better tool for visualization, Adobe Illustrator is an industry-standard tool. Files Formats: N/A Download it! If you need help to prepare your 3D file for 3D printing, have a look to our tutorial dedicated for Sculptris eMachineShop eMachineShop provides a free and fully access CAD software where you can download mostly for a professional use. While it's great for this purpose it is limited, so this is not the type of software you should use for a complex project. Rhino also is available for OS X, giving designers using Macs access to this versatile 3D modeler. Their award-winning 2D and 3D CAD software, PTC Creo, is a scalable suite of product design software that promises fast time to value. SpaceClaim @spaceclaim A fast and innovative 3D modeling software solution, SpaceClaim is a simple and flexible design tool. Also, the tutorials included in the software are really useful to help you within the first steps of your creation. Files Format: OBJ Download it! Strata Design SE 3D If you are new in creatiing 3D model, this Strata Design SE 3D can be best option to start your design. 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Wings 3D Wings 3D, an advanced subdivision modeler, is an industrial design software tool that is powerful yet easy to use. Key Features: Cloud visualization and distribution platform for engineers and designers Define interactive relationships between parts with Kinematic Assemblies Photoreal rendering in seconds Collaboration capabilities include real-time multi-user scene editing Easily handles complex models, massive geometry, and large textures Supports more than 40 different native CAD formats, including PTC, Rhinoceros, CATIA, and more Cost: FREE Enterprise: Contact for a quote 31. Key Features: Customizable interface Support for lights and materials Built-in AutoUV mapping facility Cost: FREE 16. The Healey Werks is the premier provider of motor car restoration. 95 33. With ZW3D, designers can use wrapping to map mechanical parts with logos, adjust the transition of the connection with a few clicks, and transform the parts in seconds to easily build part family for future use. 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During machining, perfect parts always require great manufacturing skills. 99 2D/3D Pro Students Version: \$129 2D Drawing Lifetime License: \$399 11. Key Features: Solves a wide range of common engineering problems quickly and efficiently Over 150 program modules and data tables, organized into a single package Modules for math, HVAC, mechanical, electrical, materials, and structural needs Cost: Engineering Power Tools Plus Edition Single-user license: \$49. ” Bruce W. Accolades to eMachineShop. 99/year 2-Year Membership: \$189. It is really easy to use and accessible to everybody. Engineering Unit Converter Professor S. Key Features: Graphical algorithm editor Allows designers to build form generators from simple to complex Perfect for quick industrial design ideation Cost: FREE 20. Key Features: Command preview and contextual menus 700,000 standard parts and features Document 3D CAD models Reusable mechanical drawing detailing tools Layer management and hidden lines Extended draw toolbar for manufacturing Cost: FREE trial available; Contact for a quote 37. Our top tools cover a range of uses, from quick ideation and rendering, to visualization, to developing interactive projects and playing with your ideas, to seeing you through from the design phase to manufacturing. Key Features: Incorporates an intuitive drag-and-drop approach to 3D modeling Modeling tools are available to deform, sculpt, and paint 3D shapes Create animation and view it in real time or record it Cost: FREE – For those who want an introduction to 3D modeling 3DCrafter Plus: \$34. With PTC Creo, design engineering teams create, analyze, view, and leverage product designs utilizing 2D CAD, 3D CAD, parametric, and direct modeling. Sculptris Sculptris is building around a user-friendly interface with detail and complex level of modeling. Xcircuit also produces circuit netlists through schematic capture and writes both hierarchical PostScript output and hierarchical SPICE netlists. This industrial design software tool helps engineers and designers to quickly and easily create designs or repurpose existing designs. Key Features: Charts and conversions Capacitor and connection notes Diagram templates Cost: FREE 22. MATLAB @MATLAB A high-level language and interactive environment for numerical computation, visualization, and programming, MATLAB is an engineering design tool preferred by millions of engineers and scientists worldwide. Rhino makes it easy for industrial designers to design, model, present, analyze, realize, and more, including translating NURBS curves, surfaces, solids, point clouds, and polygon meshes. Given that this software has a mesh-based direct modeling and not a parametric modeling one, it is more relevant for an artistic use. With RecurDyn Professional, design engineers can test various conditions, even when they are difficult to repeat. INOVATE @IronCADTeam IronCAD is a leading provider of innovative design collaboration solutions, which deliver productivity and design freedom. Key Features: Rich set of tools that streamlines the creation of analysis-ready models for linear, nonlinear, explicit dynamics, thermal, and other finite element solutions Easily creates meshes on surfaces and solids using fully-automated meshing routines,

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Key Features: CAD software with powerful, time-saving functionalities Includes industry standard content that you can add to documents with ease Enables batch printing to print multiple files without opening them Read and write support for DWG/DXF files Save DWG/DXF files back to previous versions Cost: FREE trial available DraftSight FREE – For students, hobbyists, and other individuals DraftSight Professional: \$299. , Ltd. Antimony is available for Mac, Linux. Alias is Autodesk’s industrial design and Class-A surfacing software for sketching, modeling, surfacing, and visualization tools for industrial, product, and automotive design. Files Formats: Wavefront OBJ, GTS and a raw format are fully supported, other ones are optional and depend on PLIB installation. ZW3D has recently chosen by Sango ZW3D today announced that it has been chosen by Right Way Industrial Co. ” With a powerful editor and more than 400,000 models, Sketchfab is especially useful for beginners in the industrial design field. ldr, . Femap virtually models components, assemblies, or systems and determines the behavioral response for a given operating environment. dwg CAD features design engineers are accustomed to, but adds time-saving tools and 3D direct modeling at an affordable price. Additional tools are available and sometimes integrated in the CAD software for manufacturing products on a CNC machine or 3D printer. , LTD. Industrial designers are able to create within Brush for more of your workflow, which makes the design process much more efficient. Industrial designers of nearly any ability level will boost their knowledge and productivity with DesignCAD 3D Max Plus v25, plus enjoy the versatile design capabilities delivered by DesignCAD 3D Max. Its interface is user-friendly and currently, includes over 6000 different pieces which can help you to create a 3D model fast. Try ZW3D full version for free! Make your CAD/CAM works easier, get ZW3D 30-day trial now! Currently, it costs a lot to educate CAM beginners to become experienced users , so what is really imperative is to make the CAM systems smarter and easier to use. Key Features: Multiphysics simulation Modeling and visualization Design simulation Design optimization Cost: Contact for a quote 18. As this design tool is not for beginners, a lot of video tutorials are available on their website. As you can see, even if you’re a beginner, there is a lot of simple 3D modeling software, to create and modify your designs. KeyCreator makes it possible to master your geometry and quickly produce 3D design concepts without constraints. This engineering design tool is an Android app that provides access to information frequently needed by mechanical designers, in the palm of their hands. This engineering design tool features an easy-to-use 3D CAD module that greatly reduces design time. Nevertheless with features as rendering sculpting and fast modeling, it is still very adapted to create your 3D model for 3D printing Files Format: 3DS), COLLADA (DAE), Filmbox (FBX), Autodesk (DXF), Wavefront (OBJ), DirectX (x), Lightwave (LWO), Motion Capture (BVH), SVG, Stanford PLY, STL, VRML, VRML97, X3 Download it! If you need help to prepare your 3D file for 3D printing, have a look to our tutorial dedicated for Blender BRL-CAD BRL- CAD has an outstanding geometric modeling system, also based on CSG. SWID includes unique tools for the rapid creation, manipulation, and modification of designs using both native and imported geometry. Solid Edge combines the speed and simplicity associated with direct modeling with the flexibility and control of parametric design through synchronous technology. Key Features: Unlimited creativity for building digital aspect mockups using CAD models from your PLM Layout, review, and view all of your model’s features Examine and interact with full-scale prototypes in real time Collaborate and share, plus enjoy the ability to hold dynamic and powerful review sessions Cost: Contact for a quote 26. Alias @autodesk Autodesk is one of the top names in industrial design because of its 3D design and engineering software and services. ” Key Features: Instrumentation, panel, and electrical CAD design software Data-centric, allowing users to reduce the amount of work required for repetitive tasks Global editing of electrical CAD entities, advanced reporting, and database-driven instrument management Cost: Contact for a quote 46. The easy to use UI & features make the system to be suitable for operation dept. CircuitLab @CircuitLab CircuitLab is an in-browser schematic editor and circuit simulator that helps design engineers save time designing and documenting their projects. Files Format: STEP, IGES, STL, SVG, DXF, OBJ, IFC, DAE, OFF and Fcstd Download it! K-3D K-3D is a CAD program with an artistic approach, both adapted to 3D modeling and animation. , etc. This industrial design software tool includes AutoCAD functionality plus libraries of standards-based parts and tools for accelerating mechanical CAD. We have rounded up the top 50 industrial design tools, based on user reviews, industrial design forums, and other industry-leading publications. This means industrial designers may use CAD anywhere, any time, and on any device, plus access the powerful 3D modeling capabilities Onshape has to offer. Free and available for Linux/UNIX, Windows, and Mac OS X users, OpenSCAD focuses on the CAD aspects for creating 3D models. Lakowa is a development partner, systems supplier, and manufacturer that was founded in Wilthen, Germany in 1913. TurboCAD Designer @imsidesign TurboCAD Designer delivers easy and affordable 2D drafting and design at the beginner, intermediate, and advanced levels. This engineering design tool is used by leading organizations and is applicable in multiple industries. 98/month 2. 95 2-5 users: \$79. Please note, we have listed our top design tools here, in no particular order. Key Features: High-performance ray-tracing for rendering and geometric analysis Image and signal-processing tools System performance analysis benchmark suite Libraries for robust geometric representation Cost: FREE 17. Key Features: Drag-and-drop 3D environment Powerful, high-end visualization and animation technologies that make the entire design process faster, more productive, and easier to understand Includes CAXA EDM, an integrated and fully functional EDM solution to manage CAD and related engineering project data, both internally and externally across the internet Cost: Contact for a quote 34. In ZW3D, if you want to generate a tool path, you can always rely on a perfect functionality - Tool Path Editor, to do this job without complex operations. Moreover, it has a really simple and interactive user interface. Key Features: Auto contact detection makes it easy to work with large assembly models Superior CAD interface and robust meshing Advanced numerical methods for nonlinear problems Powerful solver capabilities Advanced post-processing Reporting Cost: Contact for a quote 16. Key Features: Supports interoperability between CAD modeling and computation software (CAD-CAE link) Easily integrate new components into heterogeneous systems for numerical computation Create and modify, import and export, and repair and clean CAD models Mesh CAD models, edit mesh, check mesh quality, and import and export mesh Handle physical properties and quantities attached to geometrical items Cost: FREE 43. 99 46. It has a customizable user interface and a built-in Auto UV mapping facility to add texture to your model. With its painting and sculpting tools, it is perfectly suited for character modeling. And, our top picks vary in price from free to costing thousands of dollars, so you can find the industrial design tools within your budget. Key Features: Layers Blocks (grouping) 35 CAD fonts included Over 20 modification tools Printing to scale DXF and DWG input and output Part library with more than 4,800 CAD parts Cost: FREE 37. Complete your entire engineering process with Autodesk Product Design Suite. Its vast set of “Filters”, i. 959,00 PCSHEMATIC Automation Smart 20: €1. Sure made designing my cot and growing my company much easier and faster. Key Features: Gather design data from all phases of the process into a single digital model Validate the design data against product requirements and reference it as you build deliverables for release Implement design software that addresses your specific needs, including collaboration and communication needs Create sketches and 3D concept models Design, visualize, and simulate products before releasing them to manufacturing Cost: Contact for a quote 42. 5Spice Analysis Software 5Spice is an easy-to-use analog circuit simulator for

professional circuit designers. Geomagic Design @Geomagic Geomagic, a leading provider of 3D software, helps design engineers create digital models of physical objects for reverse engineering, product design, inspection, and analysis. PTC Creo Parametric @PTC PTC makes it possible for manufacturers to achieve product and service advantage in the age of the Internet of Things (IoT). Modo @TheFoundryTeam The Foundry consists of developers of innovative CG, visual effects, and 3D design software solutions for the design, visualization, and entertainment industries. This engineering design tool suite includes the models, calculations, and steps to make selecting, designing, analyzing, and simulating your power supply a much quicker process. It is a simple CAD software, you can easily learn 3D modeling thanks to all its CAD tools. Adobe Illustrator @Illustrator Adobe Illustrator is a vector graphics app that serves as a handy industrial design software tool for quick ideation and rendering. Key Features: 3D model creation 3D printability tools Create flexible designs that can be reused and customized using global parameters Direct editing toolset Photorealistic rendering Cost: FREE trial available; Contact for a quote 13. ZW3D CAD/CAM software presents users with solid-surface hybrid modeling technology, developed on the foundation of ZW3D kernel - Overdrive™, resulting in great 3D CAD modeling flexibility. PTC Creo Elements/Direct @PTC PTC Creo Elements/Direct, a comprehensive system for mechanical engineers and designers who create products using the direct modeling approach to 3D CAD, is an industry-leading direct modeling software. 95 – For those interested in creating detailed models or low-polygon models 3DCrafter Pro: \$69. Featuring diversified modeling capabilities, like Solid-Surface Hybrid Modeling technology, Flex Tools and Morph Tool etc. Wings 3D has been under development since 2001 and offers a variety of modeling tools. Key Features: Edit, repair, and create any geometry, without worrying about where the file comes from Increase productivity by removing the CAD bottleneck in your workflow Manipulate geometry faster and more intuitively so you can spend less time with the geometry and more time on manufacturing, analyzing, and concept modeling Cost: Contact for a quote 14. Our top engineering design picks cover mechanical, electrical, and structural engineering design needs and include CAD programs, simulation tools, modeling tools, digital prototyping software, engineering calculation and conversion tools, pocket reference, and other solutions specifically for design engineering. Key Features: Board size up to 60 inches by 60 inches Uses English or metric units for most functions Design rule checker Autosave Exports extended gerber files and Excellon drill files Cost: FREE 26. 99/monthly plan, \$49. In ZW3D, if you want to machine the holes with different tools, you can use the tactic technology by few clicks. Patran @MSCSoftware MSC Software provides simulation software for virtual product development. Featuring freeform, direct, and parametric modeling, Inventor gives industrial designers the modeling flexibility they need to work more productively. Key Features: Features a variety of modeling personalities and tools Easy-to-use interface Advanced modeling tools, STEP and IGES translators, animation, layout, network rendering, and interface customization Cost: Form-Z Pro – Single User License: \$995 Form-Z Pro 8. Key Features: Alias Concept for automotive conceptual design Alias Surface for automotive design and styling Alias AutoStudio for automotive design and styling Alias Design for consumers Alias SpeedForm for automotive fast concept modeling Cost: FREE trial available; Contact for a quote 5. Key Features: Allows users to reuse designs or collaborate with others whose designs were authored in a different CAD system Richer, more efficient product design experience 3D solid modeling, robust assembly modeling, detailed documentation including 2D and 3D drawings, technical and freestyle surfacing, and so much more Cost: Contact for a quote 21. NX for Design @SiemensPLM NX for Design, an integrated product design solution, is an engineering design tool that streamlines and accelerates the product development process for engineers. Nevertheless it would be too limited for an experienced user who works with complex models. AutoCAD Mechanical @autodesk AutoCAD Mechanical is mechanical design software for manufacturing. Their Shark FX version 9 features new and powerful 3D design capabilities for printing, rendering, animation, and precise manufacturing. 1. Engineering Power Tools Plus Edition Engineering Power Tools Plus Edition is powerful software for professional engineers. SketchUp @SketchUp SketchUp is an intuitive, powerful, easy-to-learn 3D drawing tool that is a great choice for industrial designers, especially those who want a tool for quick ideation. SolidFace @SolidFaceCAD SolidFace is a 2D/3D parametric historic constructive CAD modeler. You don't need to have a previous CAD experience to use it, and if you have difficulties in your first steps the FreeCAD community will be there to help you. Access the latest updates and releases, 1-on-1 web support, and more with the AutoCAD Mechanical Desktop Subscription. Files Format: STL No download, it is browser-based. Key Features: Share your work in over 20 popular file formats, including the latest AutoCAD DWG/DXF Use with snaps and drawing aids to speed design Easily import existing designs or share your work with others A complete set of 2D drafting and detailing tools Annotation tools Cost: \$39. This industrial design software tool gives designers the ability to rapidly create parts, assemblies, and 2D drawings. For this end it is more focused on CAD (to create machine parts for example), rather than an artistic one. File formats available in: Collada (in/out), Illustrator/EPS (in), Photoshop PSD (in/out), STL (out), 3DS (in), DXF (in/out), OBJ (in/out), VRML 1 & 2 (in/out) Download it! 3D Builder This free 3D modeling program is made for everyone. , ZW3D CAD/CAM enables designers to realize their wild creation flexibly and efficiently with shortened learning curve, saved leads time and reduced cost. For details, please download the full PDF version. Try ZW3D full version for free! 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Key Features: Visualize 3D designs in the real world Easily print to a 3D printer or 3D print service from directly within Photoshop CC Automatic mesh repair and automatic generation of support structures and rafts Includes all the 3D editing tools that previously were available in Photoshop Extended Cost: FREE trial available Single App: \$19. 99/monthly plan, \$49. Files Format: wavefront . This engineering design tool delivers fast circuit simulation capabilities, plus combines control modeling and thermal simulations. 1. Also, you will be able to locally redefine the internal structure of the model, which might be a very useful feature when you're looking at making lighter structures for 3D printing. Key Features: Created for novice and experienced design engineers Industry-leading capabilities and flexibility in automated design and simulation Eliminate the need for trial-and-error design with a hardware prototype Provides complete converter designs to cover isolated or non-isolated AC or DC input configurations Cost: Contact for a quote 27. ” NX for Design is a step ahead of CAD-only solutions because it offers an advanced level of integration between development disciplines to create an open, collaborative environment. Download it! Art of Illusion Art of Illusion is the most used software within the RepRap community. FreeCAD also may be used for other engineering disciplines. KeyCreator Direct CAD speeds the 3D design process by eliminating constraints and making it easy to modify nearly any geometry. QCAD's intuitive interface and ease of use make it a top pick among design engineers. With a minimal amount of tutorial time I was able to design a bracket and look at the 3D version which allowed me to see a potential problem with the design. 95 Limited site license: \$99. Patran is their complete Finite Element Analysis (FEA) modeling solution for design engineers that provides solid modeling, meshing, analysis setup, and post-processing for multiple solvers including MSC Nastran, Marc, Abacus, LS-DYNA, ANSYS, and Pam-Crash. A comprehensive solution, Produce Design Suite provides simulation, collaboration, visualization, and digital prototyping tools for the entire design and engineering process. Key Features: Full part and assembly modeling Detailed drawings including full 2D/3D GD&T Photorealistic rendering capabilities with Keyshot Open/edit files from neutral and native CAD systems Cost: FREE trial available; Contact for a quote 43. Within this web application, you can create a wide range

of basic shape to endless creation ideas. 365,00 PCSHEMATIC Automation Flex 150: €890,00 40. We hope that you will find the perfect 3D modeling program to create and modify your designs. This engineering design tool is also able to detect problems and product defects and solve them. Files Formats: STEP, IGES, VRML, STL, ACIS SAT, Parasolid, DXF. BRL-CAD includes interactive geometry editing and has been under more than 20 years of active development. 3. Even my twelve year old can use this program. dwg format Speed workflow with the context-sensitive Quad cursor Collaborate and annotate projects in the cloud Cost: BricsCAD Classic: \$520 – Powerful CAD functions, 2D constraints solving, full support of LISP, and Chapoo connectivity BricsCAD Pro: \$650 – All Classic edition features, plus direct 3D modeling, rendering, materials, and lighting, 3D constraints solving, and more BricsCAD Platinum: \$990 – All Pro edition features, plus 3D constraint creation, design intent recognition, assembly modeling, and more 8. Key Features: Uninhibited free-form 3D modeling tools that enable design engineers to model any shape imaginable Compatible with all other design, drafting, CAM, engineering, analysis, rendering, animation, and illustration software Read and repair meshes and extremely challenging IGES files Cost: Full Rhino 5 for Windows: \$995 – single user Full Rhino 5 for Mac: \$495 – single user 10. Apply modern techniques to greatly reduce model design and development time, provide greater insight into system behavior, and produce fast, high-fidelity simulations with MapleSim. KeyCreator Direct CAD @KubotekUSA KeyCreator Direct CAD is an industrial design software tool for designers, manufacturers, and analysts who are looking for a fast and flexible solution for creating, changing, analyzing, or communicating a mechanical part or design. An engineering design tool fit for a team of one or a large engineering department, EAGLE PCB Design Software offers the same core functions as expensive commercial software but at a fraction of the cost. Their industrial design software tool, Modo, is a great choice for quick ideation and rendering. Key Features: Powerful and adaptive tools for 3D direct solid modeling using the geometric constraints solver 3D direct modeling operations apply to all ACIS solid geometry, regardless of whether it is created in BricsCAD or imported Direct editing capabilities preserve the 3D model's design intent, even when working on complex designs Start from 2D profiles, 3D curves, 3D solids, or imported parts and assemblies New Loft command creates 3D solids by specifying cross-section profiles Powerful 3D constraints easily compose assemblies as top-down or bottom-up designs Cost: Contact for a quote 47. 123D Design @Autodesk123D 123D Design is a free industrial design software tool for people who want to make things themselves or who are just beginning to get into the field. Construct complex models from simple 3D primitives or use 3DCrafter's Shape Building Tools. Electrical Engineering An Android app, Electrical Engineering is an engineering design tool that provides three tools in one: an electrical calculator, an electrical circuit calculator, and electrical formulas. Key Features: Capture an initial sketch, explore styling alternatives, and visualize products with realistic renderings generated in real time Organic surface modeling and parametric control with NURBS-based surfaces and solids Break free from the constraints of engineering-oriented CAD tools but enjoy the capability of exporting digital models to others who need them in the product development process Cost: Contact for a quote 24. e. 2. Key Features: Includes 100 practical calculations for structural, electrical, mechanical, and physics applications Appropriate for use in all aspects of engineering design Written in English units Requires Microsoft Excel Cost: Single user: \$49. 99/month All Adobe Apps: \$75. CircuitLab's professional-grade schematics, wiring diagrams, and precise simulations make it the perfect engineering design tool. File formats: IGS, SLDPRPT, STP, STEP IGES, and 3D DWG file types for quotation. Their ZW3D is an all-in-one CAD/CAM solution that is designed for the complete product design and development process. 99 45. Ogle selected ZW3D for its easy-to-use features of modeling and CNC machining, providing its highly-trained internal model makers a tool to work with directly. A useful tool for visualization, 3DS MAX specifically is 3D modeling, animation, and rendering software. 3D Slash @3dslash 3D Slash is a great industrial design software tool for beginners. This industrial design software tool for explicit surface modeling is critical for the product development process necessary for great product design. With its synchronous technology, Solid Edge combines the speed and simplicity of direct modeling with the flexibility and control of parametric design. K-3D K-3D is an industrial design software tool for 3D modeling. With SpaceClaim, you can work with 3D modeling software quickly and easily, anywhere in the workflow. This powerful, yet simple tool makes it possible to create and edit designs, and it supports many new 3D printers. Key Features: Easily add fillets, Boolean additional shapes, cut holes, and more Add precision to designs with sophisticated modeling tools Analyze models to optimize quality and cost of final products Import CAD models from other software and make edits direct to the geometry Cost: FREE trial available; Contact for a quote 33. Direct edit and Hybrid modeling tools improves the efficiency of modifying product. ” MeshLab was developed with the support of the 3D-CoForm Project. Technical drawings, graphic designs, 3D models, everything is achievable with these CAD software and their modeling, painting and sculpting tools. Be attentive, and choose a software package compatible with your computer (window mac or linux). Solid-Surface Hybrid Modeling, developed on ZW3D's Overdrive™ kernel, combines the traits of both solid modeling and surface modeling technologies to enable flexible and convenient 3D CAD designing. ANSYS DesignSpace @ANSYS_Inc ANSYS, Inc. Key Features: Intuitive tool that is fun and easy to use Get accurate and customized measurements Import pictures as guides Work on any STL file Works any time, anywhere, on any device Cost: FREE 48. DraftSight's familiar user interface and ease of use make it a top CAD pick among design engineers. It works by placing blocks one by one until it shapes the part of the objects then adjust the design freely and the last is to combine the set of shape to create an object you want. (RW Group), a professional for reaching higher productivity, lower cost and shortening the lead time. The intuitive interface will help you to create complex models easily. Download it! Openscad Openscad is merely focused on the creation of 3D objects for 3D printing. ZW3D today announced that it was chosen by Axis Engineering India Private Limited for design and die manufacturing. These formats: PDF, JPG, TXT, and 2D DXF files are also able to be use with eMachineShop CAD software. Download it! Leocad LeoCAD is a CAD program for creating virtual LEGO models. Download it! SolveSpace This a free open-source 3D modeling software, developed by Jonathan Westhues. You can create new models from already existing one. AutoCAD @autodesk Autodesk's AutoCAD is an industrial design tool for Windows or Mac. The only limitation an industrial designer faces should be his imagination, not his software. Available in Pro 2016 for businesses and Pro 7 for individuals, SketchBook helps industrial designers with professional-grade perspective tools and an intuitive interface. In fact, Inventory is a 3D CAD software solution offering professional-grade 3D mechanical design, documentation, and product simulation tools. TinyCAD TinyCAD, an opens-ource program for drawing electrical circuit diagrams, or schematic drawings, is a handy engineering design tool that supports standard and custom symbol libraries. Sue Industrial Co. Files Format: STL OFF SCAD DXF Download it! On shape OnShape is one of the main competitors of Fusion360. FreePCB FreePCB, a free, open-source PCB editor for Windows, is capable of producing professional-quality work for design engineers. ” SIMULIA applications accelerate the process of evaluating the performance, reliability, and safety of materials and products before design engineers commit to physical prototypes. The software is mainly used in advanced technology industry as in the Medicine or Automotive industry. 95 Engineering Power Tools Standard Edition Single-user license: \$24. These engineering design tools are available online, free of charge, and provide design engineers with fast, reliable simulations and models. Grasshopper is tightly integrated with Rhino's 3D modeling tools but requires no knowledge of programming or scripting. This engineering design tool provides Spice-specific schematic entry, as well as the ability to define and save an unlimited number of analyses and integrated graphic of simulation results. Key Features: Cost: FREE 29. , a local & overseas supplier and exporter who provides the quality products to customers, mainly produces brake shoes, disc brake pads, wheel hub (front/rear), brake & clutch lever and some accessories, as well as others alumin. ANSYS Fluent is an engineering design software solution that includes special models so the software is capable of modeling in-cycle combustion, aeroacoustics, turbomachinery, and multiphase systems. Adobe Photoshop and 3D @Photoshop Photoshop is

an industry standard in digital imaging and is used by professionals around the globe in fields from video editing to design. 99/month All Adobe Apps: \$75. WEBENCH Design Center @TXInstruments WEBENCH Design Center, from Texas Instruments, offers powerful online software tools that help design engineers generate and simulate designs that conform to unique specifications. Solid Edge @SiemensPLM Solid Edge, a portfolio of affordable, easy-to-use software tools, addresses all aspects of the product design and development process for design engineers, including 3D design, simulation, manufacturing, design management, and more. Modo is the visualization tool for industrial designers that allows them to “conceive, explore and create anything from sunglasses to submarines. CATIA @3DSATIA A Dassault Systèmes pioneer brand, CATIA is the world’s leading solution for product design and innovation. Autodesk Product Design Suite @autodesk Autodesk is best known for its 3D design and engineering software and services. In addition, apart from providing a library of standard parts, ZW3D also offers some handy tools to do some personalized designs, such as embedded logos and transitions of the contour. Design engineers can complete all of their technical illustrations with TurboCAD Designer, which provides access to hundreds of 2D drawing, modifying, and dimensioning tools.” Ray Kimble “I am not very well versed in utilizing CAD programs but I found your site and information to be the best that I have seen so far. the processing tools in Meshlab, include meshing analysis and “cleaning” of errors, remeshing, like surface reconstructions, an automatic smoothing algorithm and visual “inspection” tools. Key Features: Offers the highest level of integration between development disciplines in an open, collaborative environment Leading-edge 3D product design solution Flexible, robust computer-aided design and styling software that accelerates product engineering by providing fast concept design and modeling Cost: Contact for a quote 47. OpenSCAD @openscad OpenSCAD is an industrial design software tool for creating solid 3D CAD models. ANSYS Fluent @ANSYS_Inc ANSYS Fluent software for design engineers contains the physical modeling capabilities needed to model flow, turbulence, heat transfer, and reactions for industrial applications. Key Features: Hundreds of tool to draw, modify, add dimension, and annotate Materials, lighting, and photorealistic rendering create powerful presentations Compatible with AutoCAD, SketchUp, and other industrial design software tools Customizable user interface Mechanical tools tailored to engineers such as 2D/3D Boolean operations, revolve, extrude, sweeps, and chain polyline Cost: FREE trial available; \$129. So, browse through the list, see which you think will fit your needs, and make your industrial design process a little more efficient and a lot more possible. Steady hybrid modeling help to speed up modeling process and increase design flexibility. Key Features: More than 30 add-on products to choose from, to further expand the simulation platform Dedicated physics interfaces and tools for electrical, mechanical, fluid flow, and chemical applications Additional interfacing products connect COMSOL Multiphysics simulations with technical computing, CAD, and ECAD software Cost: Contact for a quote 19. 3D-Crafter Due to its drag and drop approach to create your model, 3D Crafter is a pretty intuitive program. Bhattacharjee of San Diego State University offers Engineering Unit Converter, a comprehensive engineering unit converter available for Android devices. It has the same functionalities as Solidworks and it is browser based and free. Free CAD software for experienced CAD users 3D Crafter Art of Illusion Blender BRL-CAD Meshlab Onshape OpenCascade Openscad Sculptris eMachineShop SolveSpace You never used a CAD software before? You want to design a simple shape model? You already used a 2D CAD but you want to go further? Then these free CAD software are for you! You will be surprise by all the design tools available on these free modeling platforms. Files Formats: DXF, STL, DWG, native SolidWorks, CATIA, CREO, Inventor, JT and AutoCAD file, Parasolid, IGES, SAT, STEP. “As a professional CAD designer with over 15 years of CAD experience using nearly every software platform available, eMachineShop has, without a doubt, the most user friendly design package that I’ve ever encountered. Autodesk Digital Prototyping @autodesk As an engineering design tool, Autodesk Digital Prototyping helps design engineers make great products by replacing siloed tools with integrated ones. You can then export the file you’ve created it, or 3D print it directly on their platform. MoI Moment of Inspiration (MoI) is 3D modeling for designers. You need to be able to create blueprints and schematics for structures, systems, machines, and equipment and work collaboratively with other engineers, drafters, and team members, and you need to be able to work productively and efficiently. The Engineering ToolBox The Engineering Toolbox is an online tool for design engineers that provides resources, tools, and basic information. Power Supply WebDesigner @FairchildSemi Fairchild is a global leader in power semiconductor and mobile technology. Key Features: An easy-to-use software package Extremely high simulation speed Open interface May be integrated into MATLAB or other programming environments Cost: FREE trial available Single seat: €1980/year Dongle: €2480/year Universities: €540/year 44. EAGLE PCB Design Software @CadSoftTech EAGLE PCB Design Software has been helping design engineers on a global scale for more than 20 years. learn more >> With the innovation of computer aided design technology, it is easier than ever to express the world three-dimensionally. New features and upgrades to Photoshop are making it a tool of choice for industrial designers who are looking for a tool with impeccable 3D capabilities. Cruzin’ Machine, a small custom design and fabrication firm that specializes in building “art form theme images,” of totally unique parts and accessories.” This browser-based 3D design and modeling tool is appropriate for all – just imagine and then design in minutes. 3DTin @3DTin If you need an industrial design tool for 3D modeling in your browser, 3DTin is your solution. It is actually possible to do some 2D drawing with this program if you need to, you can totally use it as a 2D CAD. Höhn GmbH chooses ZW3D to design and machine ROAD RANGER hardtops. IronCAD @IronCADTeam IronCAD is a leading provider of innovative design collaboration solutions for true productivity and design freedom. 99 15. Key Features: Easy to use for beginners but flexible enough for advanced users Runs on Mac, Windows, and Linux Build interactive prototypes Cost: FREE 22. TinyCAD also supports PCB layout programs with several netlist formats and is capable of producing SPICE simulation netlists. Driven by the Blender Foundation, Blender is an open source project that aids industrial designers in visualization. Rhinoceros @bobmcneel Rhinoceros, with its thousands of modeling and editing tools, yields fast results for industrial designers. \$40 Annually: *Approx. Key Features: Calculate the most important electrical sizes and the electrical power, electrical resistance, electrical charge, electrical work, and electrical current Calculate the current in parallel circuits, the voltage in series circuits, and the resistance in parallel and series circuits See formulas for electrical power, electrical resistance, electrical work, electrical current, and electrical charge Calculate the stored energy in a capacitor, the inductance and the capacitance, and the output voltage of a voltage divider Download: Google Play – FREE Posted By Claire Chabaud on Apr 5, 2017 | 6 comments To make a 3D print, you need a 3D file, but to get it you don’t need to be an expert or have a significant budget; you can download 3D files from dedicated marketplaces or try to create it by yourself using 3D CAD & Modeling software. Thus, designing products with strong visual impact becomes crucial to designers, making market competition tenser and tenser. K-3D combines flexible plugins with a visualization pipeline architecture, making K-3D versatile and powerful, especially as a visualization tool for industrial designers. It’s very easy to add colors, shapes, letters to any designs. learn more >> Are you suffering the various frustrations during mold design process? Are you troubled by tedious core & cavity splitting? ZW3D can help to provide a productive workflow during mold design process as a time saver. Key Features: Take a direct modeling approach to 3D CAD Completely repurpose existing designs, even if you don’t know how they were made Shorten time-to-market an meet customer designs for new products while satisfying increasingly complex customer requirements Allows infrequent CAD users to make changes to geometry quickly and easily Cost: Contact for a quote 30. 99/month 1-Year Membership: \$99. Formats: STL, SQL, OBJ, PLY This is not your first try in 3D modeling, but you don’t want to invest in an expensive professional CAD software? These free CAD software for experienced CAD users, inspired by the best professionals ones are perfectly suited for your needs. Tinkercad @tinkercad With Tinkercad, you can “learn to design the products of your life. Its intuitive user interface makes MoI a good choice for those who are new to industrial design and who may be struggling with complex CAD tools. learn more >> ZW3D CAM, powered

by the unique QuickMill™ technology, can assist you to machine smartly and efficiently with seamless collaboration between CAD & CAM. , purchasing dept. Mechanical engineering software is employed across several industries, including industrial machine design, automotive, and consumer products. learn more >> Tool Path Editor, a tool embedded in ZW3D CAD/CAM 2014 allowing further modification of the tool path, can reduce programming time and boost CNC machining with commands like ReOrder, Trim, Extend and Transform. It's true that 3D CAD software can often be boring and difficult to use; however 3D Slash enables kids to discover the fun of 3D modeling by using block logic which enables everyone who uses it to create amazing designs, even if they have no previous modeling experience. Autodesk recently released brand new, user-requested features plus enhancements for design, making 3DS MAX an even more useful industrial design software tool. DraftSight CAD Software is available as a free download for students, hobbyists, and other individuals, in a professional pack for small and medium-sized companies, and in an enterprise pack for large corporations. Key Features: Heating and cooling load estimation Sound and vibration guidelines Ventilation rates for indoor air quality Design formulas and conversion factors Download: Google Play – FREE 50. Powerful data translation supports files from CATIA, UG, CREO, Solidworks, Inventor, Autocad, NX, etc. Onshape @Onshape A full-cloud 3D CAD system, Onshape is an industrial design software tool that enables everyone on the design team to collaborate using any web browser, phone, or tablet. Key Features: Use any CAD data and eliminate manual file translation, prepare, and rework Shape generation technology Electromechanical interoperability when you link your Inventor and AutoCAD Electrical data Design automation tools Ability to create native DWG drawings Available in three versions – Inventor, Inventor Professional, and Inventor in a Suite Cost: FREE trial available; Contact for a quote for Inventor in a Suite Inventor Monthly: \$235 1-year: \$1,890 2-year: \$3,780 Inventor Professional Monthly: \$385 1-year: \$3,065 2-year: \$6,130 35. Key Features: New Creative Cloud Libraries capabilities Shaper tool Touch workspace updates Adobe Capture CC integration New Live Shapes: ellipses, polygons, and lines Cost: FREE trial available Single App: \$19. Dr. Autodesk Product Design Suite @autodesk Autodesk Product Design Suite is an industrial design software tool for delivering innovative 3D product designs. 220,00 PCSHEMATIC Automation – Stand-alone license: €2. Antimony It is an innovative parametric 3D modeling software, developed by an engineer called Matt Keeter. Engineering Cookbook The Engineering Cookbook is a convenient reference guide for mechanical designers. As with Meshlab, Meshmixer's features include great tools for 3D printing like inspecting, cleaning and healing for 3D file for 3D printing. For details, please download the full PDF version. The NX for Design solution specifically for industrial design and styling is a powerful tool that enables users to optimize form, fit, function, and user experience. Elecdes Design Suite @Elecdes Elecdes Design Suite (EDS) is an award-winning electrical design and instrumentation software suite. Key Features: Modify nearly any geometry as easily as if you were sculpting clay Easily add fillets, Boolean additional shapes, and cut holes Create geometry in real time and eliminate rebuilding errors Add precision to your design with sophisticated modeling tools Cost: Contact for a quote 25. Key Features: Fewer “picks and clicks” Increased modeling flexibility More intuitive interface Easier access to commands Communicate, collaborate, and work concurrently across teams, disciplines, customers ,and vendors with mechatronic design, concurrent design, and streamlined electrical/mechanical design Innovative design simulation for more efficient analysis to solve complex problems and discover potential errors before they occur Cost: Contact for a quote 4. Specifically, TopSolid Design offers “a revolution in CAD” so that you can “design complex assemblies in record time. SpaceClaim 3D Modeling Software @spaceclaim SpaceClaim, a fast and innovative 3D direct modeler, helps design engineers solve geometry problems quickly. Key Features: Accelerate product design, make revisions more quickly, and improve design data reuse Faster 2D drafting, best-in-class sheet metal design, flexible part and assembly modeling, built-in photorealistic rendering, and unmatched mobility Design assemblies and manage part relationships, regardless of how many parts are involved Cost: FREE trial available Solid Edge Design and Drafting: \$100/month – Basic 3D CAD and support package Solid Edge Foundation: \$230/month – Complete 3D CAD and support package Solid Edge Classic: \$290/month – Advanced 3D CAD and support package Solid Edge Premium: \$420/month – Ultimate 3D CAD and support package 34. Key Features: Saves circuit components in libraries that are fully editable Maintains flexibility in style without compromising the power of schematic capture Serves as an excellent electronic design automation tool Cost: FREE 41. If you need more complex feature in your design, you can upgrade the software with flexible plugins such as visualization pipeline architecture. Learn how ZW3D empowers your design and boosts your business ZW3D KEY BENIFITS: 1. Key Features: Choose a category such as length, energy, entropy, electrical charge, or others from a list and spin the wheels to select a “From Unit” and a “To Unit” Change the input value, sort units, or swap as needed Additional information about measurements is displayed when you press the Help button Does not require internet access Download: Google Play – FREE 48. The software is animation-oriented but is still really adapted when one is looking for a software that is both mixing modeling and rendering. 740,00 PCSHEMATIC Automation Smart 40: €1. Shark FX v9 @Punch_Software PunchCAD offers tools for engineering designs that require 2D or 3D rendering. CATIA V6 offers breakthrough productivity design solutions powered by the 3DEXperience Platform. This industrial design software tool gives industrial designers the flexibility and power they need to optimize, transform, and display CAD models as digital aspect mockups. All your work will be instantaneously saved in the cloud thanks to the data management built in, you will be able to work on the same document with your peers and collaborate very easily. It is perfectly suited for simple shapes that are already parametrically defined. offers engineering simulation software, and ANSYS DesignSpace is the easy-to-use simulation tool that provides design engineers with the tools necessary for conceptualizing, designing, and validating their ideas right on their desktops. Key Features: Quickly iterate on design ideas with sculpting tools to explore form and modeling tools to create finishing features Test fit and motion, perform simulations, create assemblies, and more Create toolpaths to machine your components or use the 3D printing workflow to create a prototype Join together design teams in a hybrid environment that utilizes the power of the cloud as needed and uses local resources when needed Cost: FREE trial available Monthly: *Approx. 5. With MATLAB, you can explore and visualize ideas and collaborate across disciplines to put your ideas into action. ANSYS Fluent is considered an integral part of the design and optimization phases of global companies' product development. Files: if you want to export as anything other than POVRay or Renderman, you have to upgrade to either 3DCrafter Plus (\$35) or 3DCrafter Pro (\$70). Autodesk Showcase @autodesk Autodesk Showcase is 3D visualization software that brings industrial designs to life. ” Arduino now is used in IoT applications, wearables, 3D printing, and embedded environments. Industrial designers have full control over the modeling process because OpenSCAD is not an interactive modeler; rather, is is similar to a 3D-compiler that reads a script file and then renders the 3D model from the file. Thanks to the use of Constructive Solid Geometry and the Extrusion of 2D outlines, this software is very intuitive. Key Features: Advanced solver technology for fast, accurate CFD results, flexible moving and deforming meshes, and superior parallel scalability User-defined functions allow for implementing new user models and extensively customizing existing ones Easily pause a calculation, examine results with integrated post-processing, change any setting, and then continue the calculation within a single application, thanks to ANSYS Fluent's interactive solver setup, solution, and post-processing capabilities Cost: Contact for a quote 20. Key Features: Flat or hierarchical schematic entry Many popular PCB layout compatible netlist formats Convenient support for embedding graphical images in drawings Cost: FREE 30. MoI Version 3 is available for both Windows and Mac. Its standardized Data Exchange interfaces allow querying and examining the input file, converting its contents to a CAD model and running validity checks on a fully translated shape. Linear Technology Design Simulation and Device Models @LinearTech Linear Technology offers several custom design simulation tools and device models to allow design engineers to quickly and easily evaluate circuits using high-performance switching regulators, amplifiers, data converters, filters, and

more. SOLIDWORKS 3D CAD @SOLIDWORKS SOLIDWORKS 3D CAD from Dassault Systems enables industrial design teams to quickly transform ideas into great products. Try ZW3D full version for free! Make your CAD/CAM works easier, get ZW3D 30-day trial now! With the requirements of users continuously increasing, mold design at the present time faces more challenges than ever, such as the low efficiency in quotation, core and cavity separation, mold design and so on. Files Formats: PLY, STL, OFF, OBJ, 3DS, COLLADA, VRML, DXF, GTS, U3D, IDTF, X3D Download it! OpenCasCade OpenCasCade proposes a good alternative to professional software. This open-source electronics prototyping platform is based on flexible, easy-to-use hardware and software and has “been the brain of thousands of projects, from everyday objects to complex scientific instruments. PTC Creo @PTC PTC seeks to enable manufacturers to achieve product and service advantage in the age of the Internet of Things. The technology of 3-dimensional modeling is ever-developing with diversified modeling approaches like wireframe modeling, solid / surface modeling, feature modeling and synchronous technology. GeckoCIRCUITS GeckoCIRCUITS is a circuit simulator for modeling power electronics systems. (GRS&S), Grand Rapids, Michigan, is an industry leader in the manufacture of custom stampings, value added assemblies, springs and slide-formed products. The editor even said that the software is used by the US Army to model weapon systems. Draw, modify, and annotate, plus share your work with AutoCAD or SketchUP, with TurboCAD Deluxe. ZW3D can help you to greatly reduce programming time with Tool Path Editor and makes it simpler and smarter to produce a perfect tool path for machining. This industrial design software tool encompasses 3D design, simulation, manufacturing, design management and more. Files: ACAD, DXF, IGES, EUCLID, jack, STL, TAWKILL, VRML, Wavefront, X3D Download it! Meshlab Meshlab is another very complete mesh fixing and editing software. 3D Slash The idea of 3D Slash was born when Sylvain Huet watched his kid play Minecraft, he had the bright idea that 3D printing should be as fun and entertaining as playing Minecraft. Key Features: Users do not need to know CAD to make and print 3D models Easy, browser-based 3D design and modeling tool Imagine something and then design it in a matter of minutes Click-to-3D print Cost: FREE 14. 00/yearly subscription – After 12 months, a yearly fee of \$99 is due starting with the next billing cycle DraftSight Enterprise: Contact for a quote 32. Key Features: Free and open source software free for any purpose Now includes a new, unbiased rendering engine, Cycles, that offers ultra-realistic rendering Comprehensive array of modeling tools for creating, transforming, and editing models, including keyboard shortcuts for a fast workflow, N-Gon support, edge slide, collapse, dissolve, grid and bridge fill, and Python scripting for custom tools and add-ons Cost: FREE 10. Siemens NX for Design @Siemens NX for Design is Siemens’ PLM software. Are you ready to get started with 3D modeling? Once you have your 3D design ready, don’t hesitate to upload your 3D file on our online 3D printing service. This industrial design software tool features a familiar 2D and 3D interface with 2D drafting and 3D modeling while supporting solutions for industry-specific tasks. For details, please download the full PDF version. SOLIDWORKS Industrial Designer @SOLIDWORKS SOLIDWORKS Industrial Designer (SWID) is a concept design tool that helps design engineers quickly generate multiple industrial design concepts in response to a design brief. Design engineers use SALMOE both as a standalone application for generation of CAD models and as a platform for integration of the external third-party numerical codes to produce a new application for the full life-cycle management of CAD models. Better suited to 3D modeling and industrial design beginners, 3DTin has a simple interface that makes it incredibly accessible. I still remember the first time I placed an order and it arrived exactly right... it was like a fairy tale. Key Features: Intuitive, consistent, and discoverable Features procedural and parametric workflows Advanced undo/redo system Node-based visualization pipeline to create unique combinations Cost: FREE 23. This powerful CAD platform “unifies advanced 2D design with the intelligence of 3D direct modeling,” for Windows, Linux, and Mac users. However, generation of accurate tool paths is a quite time-consuming work, which could be extremely troublesome without the help of good tools. Also, it has a good subdivision surface feature. With easy-to-learn features, this industrial design software tool is perfect for those industrial designers who are looking to improve their digital art skills and enhance their presentations. Key Features: Freeform shape modeling Reverse engineering Flexible, robust computer-aided industrial design and styling software for accelerating product engineering through fast concept design and modeling Cost: Contact for a quote 19. Fusion 360 @adskFusion360 Autodesk’s Fusion 360 is 3D CAD/CAM software for product design. Femap @SiemensPLM An advanced engineering simulation software program suitable for design engineers, Femap creates finite element analysis models of complex engineering products and systems and displays solution results. Industrial designers celebrate the surface designs that Alias digital prototyping tools help them to create. Key Features: More easily create designs with drawing and sketching capabilities in SketchBook Pro Annotate and iterate with layers Perfect for quick ideation and beginners in the industrial design field Cost: FREE trial available; Contact for a quote 41. BRL-CAD @BRL_CAD BRL-CAD is a powerful cross-platform open source solid modeling system that serves as a top industrial design software tool. Key Features: Refine and optimize designs with a powerful, open analysis environment Develop high-fidelity system-level models significantly faster Investigate your models, create and manage libraries of custom components, and use your models with other simulation programs Cost: Contact for a quote 21. Key Features: Reuse engineering data for engineering design Easily and quickly model organic shapes for conceptual design Precisely manipulate geometry Reduce physical prototypes to cut costs and make sustainable and economical products Cost: FREE trial available 40. Key Features: Bottom-up modeling using finished components Top-down modeling by designing components to match specific designs Modeling based on layout drawings, such as kinematic diagrams Supports all the capabilities of 3D solids and surface modeling, including intuitive creation of new geometry and importing and manipulation of surfaces, associative settings for element parameters, flexible parts and assembly editing, including characteristic points, and much more Cost: Contact for a quote 28. Key Features: Easy inclusion of Spice/PSpice models from a user-expandable library Uses desktop simulation and local storage to ensure the security of your proprietary designs Does not require an internet connection Behavioral modeling Multi-page schematic User-defined parameters to set static and swept component values Tool to make schematic into Spice subcircuit Cost: 5Spice Analysis Single copy: \$210 3 or more copies: \$190 5Spice Professional Single copy: \$319 3 or more copies: \$277 45. Key Features: Numeric computation to use mathematical functions to solve science and engineering problems Core math functions use processor-optimized libraries to provide fast execution of vector and matrix calculations Explore, visualize, and model your data Share results as plots or complete reports Cost: Standard individual license: \$2,150 Group license: Contact for a quote 3. A free software comparable to the best-paying ones! Still, if you want to get more advanced features, you will have to buy some upgrading package. TechCalc100 Engineering Software Designers west publishes TechCalc100 engineering and scientific calculation software that helps design engineers rapidly complete calculations. SolidFace enables design engineers to accelerate their designs, increase productivity, and reduce cost with its 3D solid modeling that delivers true visualization and real testing prior to manufacturing. Download . This user-friendly CAD software offers design custom parts with real-time pricing and their expert will give you design feedback regarding your product design. ” Key Features: Intuitive user interface Totally integrated PDM Interfaces with all the leading CAD tools on the market Optimized management of large assemblies Powerful modeling and simulation tools Smart standard components containing machining information Detailed and standardized drawings Cost: Contact for a quote 12. That’s why design engineers’ software, tools, and apps need to streamline your design and development processes rather than hinder them. , such as marketing dept. If your industrial design tools are holding you back, or if you’re looking to upgrade your existing software platform, we have some options for you. Even without advanced analysis knowledge, design engineers are able to perform real-world, static structural and thermal, dynamic, weight optimization, vibration mode, and safety factor simulations on designs when utilizing ANSYS DesignSpace. Form-Z Pro @formZ3D Form-Z Pro is an innovative 3D design software tool that enables designers to explore ideas, design creatively, and deliver

projects productively. Key Features: The fastest kernel for solid-surface hybrid modeling Make full use of existing drawings with powerful data exchange when product planning Multiple methods of verification to guarantee the quality of your design Enhance internal and external cooperation with sample making Available in several versions, including ZW3D Standard, ZW3D Professional, ZW3D Premium, ZW3D 2X Machining, ZW3D 3X Machining, ZW3D Lite, and ZW3D Student Version Cost: FREE trial available for 30 days; Contact for a quote 5.

DesignCAD 3D Max Plus v25 DesignCAD 3D Max Plus v25 is a bundle combining 2D/3D design software with video training and more than 30 million CAD symbols. ZW3D Offers Kupron Flexibility and Shorter Lead Times. Files formats: STL, OBJ It's browser-based FreeCAD As FreeCAD uses Parametric modeling it can be used by different kind of users from the home user to the programmer. Create compelling visualizations, generate presentation documents, and iterate quickly with SketchUp. Key Features: Produce scaled, accurate 2D drawings Appropriate for industrial designers, mechanical engineers, and related fields Increases productivity Cost: SketchUp Pro Single User + 1 year maintenance and support: \$695 Enterprise or network licenses: Contact for a quote 27.

3D Slash makes 3D modeling fun and easy, especially because it does not require complex vocabulary or training. Files: OBJ, 3DS, DWG, DXF, DAE, FBX, KMZ, WRL, XSI Download it! If you need help to prepare your 3D file for 3D printing, have a look to our tutorial dedicated for Sketchup TinkerCad TinkerCad is a browser-based 3D design and 3D modeling program that you can access through your browser. For details, please download the full PDF version. You can customize the interface by adding on modeling tools or upgrade to the pro-version. Geomagic Design ensures rapid, accurate product design and development in an easy-to-use environment. The app also covers a broad range of subfields including electronics, power engineering, telecommunications, control systems, radio frequency engineering, and signal processing. A powerful, flexible 3D modeling software, PTC Creo Parametric is an industrial design software tool that is easy to use yet features all of the capabilities industrial designers need to complete their projects. We even included a few options to help you present your designs and improve the aesthetics of your designs while sharpening your digital sculpting skills. Key Features: Launch Showcase 3D visualization software from AutoCAD-based software to create rendered 3D scenes Launch from Inventor software and create animated digital prototypes Import native Revit files and select a specific Revit view for visualization Publish scenes and use A360 for web and mobile viewing and sharing Simulate the behavior of camera lens effects from within the Showcase viewpoint Faster frame rates for better performance when presenting cross sections and turntable animations Cost: FREE trial available; Contact for a quote 29.

BricsCAD @bricsys BricsCAD offers common CAD features yet adds time-saving tools and 3D direct modeling at an affordable price. BricsCAD @bricsys BricsCAD offers the familiar . With the power of ReOrder, Trim, Extend and Transform, the time spent on adjusting the parameters and recalculation will be greatly reduced. This industrial design software tool makes it possible for industrial designers to design faster, better, and easier because of its performance, flexibility, and collaboration capabilities. Key Features: Schematic editor, layout editor, and library editor modules with identical user interfaces Free service support through dedicated experts Compatible with Linux, Windows, and Mac Flexible ULPs enable custom features, including individual instruction sequences, simulation, data export, and import Cost: Contact for a quote 39.

SOLIDWORKS 2016 @SOLIDWORKS Dassault Systemes SOLIDWORKS is a 3D CAD design software tool that is a perfect solution for industrial designers. Arduino @arduino Arduino is a useful industrial design software tool for designers who want to develop interactive projects and play with their ideas. Deliver innovative products in a collaborative environment using NX for Design. For details, please download the full PDF version. 96 – For those wanting a full-fledged 3D modeling and animation package with the ability to create photo-realistic images 49. I. 95 Limited site license: \$149. Because FreeCAD includes tools similar to SolidWorks and Solid Edge, it also is considered a PLM, MCAD, CAx, and CAE. Solid Edge @Siemens Solid Edge is Siemens' portfolio of affordable and easy to use software tools for the product development process. Better suited for those new to industrial design, Space Claim seeks to help users “imagine, design, make, and realize your ideas, faster with SpaceClaim. Their Power Supply WebDesigners is a suite of time-saving tools for designing and optimizing your power supply. Optimize your designs and make value-based tradeoffs at the design, system, or supply chain level before committing your design to production with WEBENCH Design Center. As an Open Source, Wings 3D is free it's modeling tools can be used for personal and commercial projects as well. CATIA V6 @3DSCATIA Dassault Systemes' pioneer brand, CATIA is a leading solution for product and industrial design and innovation. Key Features: Locally redefines internal structures of models Edit mesh geometry with simple brush strokes Paint textures onto the surface of the mesh Cost: FREE

Engineers and designers use mechanical engineering and design software to model, validate, and communicate ideas before production. Key Features: Interactive selection and deletion of mesh portions, even for large models Painting interface for selecting, smoothing, and coloring meshes Measuring and slicing tools Appropriate for quick ideation, rendering, and visualization of industrial designs Cost: FREE 50. Key Features: CAD/CAE software for design and analysis of machines, cams, mechanisms, and motions Design and build 3D machines with as many mechanisms as you need Create, edit, analyze, and view your interacting mechanisms in a 3D environment, plus add solids to the model Builds mechanisms with efficient kinematic equations that provide exact solutions Cost: FREE trial available; Contact for a quote 6. With CATIA, industrial designers expand CAD from digital mock-up to functional mock-up with multiple views required for product development – requirement, functional, logical, and physical. Key Features: Non-commercial use of 3D models and circuits Free apps for 3D design and printing Free projects and 3D models Unlimited cloud storage Premium features include commercial use of 3D models and circuits, Instructables Pro account, and unlimited private circuits Cost: FREE Premium: Monthly Membership: \$9.

Autodesk Digital Prototyping makes it possible for design engineers to streamline the entire product design and development process because they can explore their ideas before building them. SALOME An open-source software that provides a generic platform for pre- and post-processing for numerical simulation, SALOME is an engineering design tool that is based on an open and flexible architecture made of reusable components. COMSOL Multiphysics @COMSOL_Inc COMSOL Multiphysics is “the original multi physics simulation software. The simple processes involved with this design tool make it intuitive enough to serve as a tool for beginners in the industrial design field. Create editable associate models easily using KOMPAS-3D and its powerful functions that can manage projects with thousands of sub-assemblies, parts, and standard library products. Key Features: CAD toolset and advanced Boolean functions enable rapid creation of mechanical or man-made hard surface models Unique polygon mesh export generates clean and crisp N-Gon polygon meshes from CAD NURBS models Powerful, accurate, and easy to use with a pen-tablet friendly user interface Cost: \$295 36. It is particularly appreciated by more professional users for its many mesh and point cloud processing functions, and its ability to manage even very large files, making it suitable for use with high-quality 3D scan data. Tinkered also is a prime 3D printing companion for industrial designers. The tool adapts for smartphones, tablets, and desktops so that design engineers always have the optimized version of the toolbox available to them. ZW3D functions as both perfect time saver for quotation and reliable booster for mold design, improving the mold design efficiency greatly. 99/month annual plan paid monthly, or \$599. This handy engineering design tool features an intuitive spinning wheel interface and helps design engineers convert units from anywhere, any time and has earned a 4. to confirm or check the drawings. KOMPAS-3D KOMPAS-3D, a flexible 3D modeling system, is an engineering design tool that allows design engineers to create models using several methods. Lumiscaphe @lumiscaphe Lumiscaphe, an editor and integrator of innovative software solutions in the field of digital aspect mockup and photorealistic, real-time 3D rendering, provides 3D Sensation for engineering and design professionals. Simulia @3DS_SIMULIA 3DS SIMULIA, powered by Dassault Systèmes' 3DEXPERIENCE Platform, provides realistic simulation applications that enable design engineers “to explore the real-world behavior of product, nature, and life. 3DTin was acquired by Lagoa, and it enables users to create kinematic assemblies, renders, and photocell interactive 3D experiences all in the

browser. Easy assembly modeling functions support to create well defined assembled constraints and generate the BOM table. Feist Modellund Formenbau, located in Oberpframmern, Germany, is a small but highly professional company that specializes in manufacturing regionally based automotive prototypes from raw materials as well as pilot run samples. Key Features: Appropriate for a range of industries, including automotive, aerospace, and durable consumer goods Covers the entire process chain of modern surface product development, including visualization Suitable even for demanding surfacing requirements, even those in vehicle manufacturing Surface modeling software that complements existing CAD environments Cost: Contact for a quote 42. But Wait, there is more! What is really astonishing with Onshape is that it includes the same tools as Google doc. If you are curious about 3D sculpting, SculptGL is a good way to start and learn more about the basic functionalities of a sculpting software. Files Formats: OBJ, STL, MIX, DAE Download it! If you need help to prepare your 3D file for 3D printing, have a look to our tutorial dedicated for Meshmixer Sketchup Sketchup is one of the most used to start CAD design and has 3D Warehouse where you can find massive repository of free 3D models. 3DCrafter A real-time 3D modeling and animation tool, 3DCrafter is an industrial design tool that incorporates a drag-and-drop approach to 3D modeling. MapleSim @maplesoft Maplesoft provides software for engineers, and MapleSim is their advanced physical modeling and simulation engineering design tool. Key Features: Clean, consistent user experience with a familiar interface Create 2D technical drawings quickly and accurately Performs 3D direct modeling with assemblies in the standard . Key Features: Allows complex 3D operations on complex shape types A full parametric model a Modular architecture allowing plugins/modules to add functionality to the core application Sketcher includes a constraint-solver, for sketching geometry-constrained 2D shapes Robot simulation module for studying robot movements Cost: FREE 15. ICEM SURF @3DSCATIA ICEM SURF is a surface modeling solution for class A-surface modeling, surface analysis, and design visualization. Electrical, mechanical, and structural engineers will find The Engineering ToolBox useful as an engineering design tool. TurboCAD Deluxe TurboCAD Deluxe is a powerful, complete 2D/3D CAD software for industrial design. Key Features: Create complex parts, assemblies, and detailed drawings within your web browser Easily define parameters and relationships to allow designs to be easily modified Use mates to build realistic assembly motion Collaborate with colleagues, vendors, and partners in real time Control access, work together simultaneously, and branch designs from within Onshape Import existing CAD data and use Onshape to collaborate, or take advantage of Onshape's built-in version control Cost: FREE – Best for students and makers, view and markup, and light-duty professionals Professional: \$100/user/month – Best for professional CAD users and designers Enterprise: Contact for a quote – Best for large Onshape deployments requiring advanced design control and reporting 44. It is possible to create technical drawings with this software. ” With this single industrial design tool, users design, test and fabricate, work anywhere, and collaborate with anyone. You folks are definitely one of the most valuable sites I have ever found!!” Sean Hughes “I was totally amazed how your company delivered CAD software linked to production machines and immediate cost quotes. Key Features: LTspice IV, available for Windows and Mac OS X, is a high performance SPICE simulator, schematic capture, and waveform viewer LTpowerCAD II is a complete power supply design tool program LTpowerPlay is a Windows-based development environment that supports a variety of tasks and can be used in offline mode Cost: FREE 24. With Geomagic Design, design engineers get comprehensive 3D CAD tools for design, engineering, and preparation for manufacturing. We at Pannam recognize all of the challenges and demands design engineers face, so we have compiled a list of the top engineering design tools, software, and apps in the hopes of making your job a little easier. \$300 13. Key Features: Clearly see details with Line Fading and smoother curves Automatically create appropriate measurements based on your drawing context with Smart Dimensioning Tools are designed for maximizing productivity Design and visualize nearly any concept with 3D free-form tools Cost: FREE trial available AutoCAD Software for 2D and 3D CAD Monthly: \$210 1-year: \$1,680 2-year: \$3,360 9. With SWID's broad-based collaborative framework, design engineers accelerate their designs and reduce costs. ZBrush @pixologic ZBrush is the industrial design software tool that features ArrayMesh, NanoMesh, and Modeler with Mesh, which are useful throughout the creative process. Key Features: Cover the entire shape design, styling, and surfacing workflow Intuitive and easy-to-use shape design tools to involve everyone in the design process, not just industrial designers Industrial designers work collaboratively with creative designers, design studios, and engineering departments to optimize products for aesthetic and engineering purposes Cost: Contact for a quote 32. Key Features: Predict and improve product performance and reliability Reduce physical prototyping and testing time and cost Evaluate various designs and materials Optimize designs and reduce material usage Cost: Contact for a quote 23. DraftSight CAD Software @DraftSight DraftSight CAD Software allows design engineers to access existing DWG files and create new ones at an affordable price. With the application of the design for manufacturing by which the CAM tool path will be updated whenever the CAD data is updated, ZW3D help greatly shorten the CAM machining process by understanding the CAD design. Design engineers who use Engineering Power Tools increase their productivity and efficiency because they avoid looking up formulas and performing repeated calculations. Key Features: Universal 3D viewer Effortless publishing Use for VR/AR, 3D print, or download Unlimited uploads Cost: FREE PRO: \$10/month paid yearly or \$15/month paid monthly – Unlimited uploads, up to 200MB/model, up to 20 annotations/model, basic viewer customization, and more Business: \$29/month paid yearly or \$39/month paid monthly – Unlimited uploads, up to 500MB/model, up to 50 annotations/model, advanced viewer customization, and more 25. This software is developed by Microsoft, and only available for Windows. Check out our tutorial to learn how to use TinkerCAD. Inventor @autodesk Autodesk's Inventor helps industrial engineers make great products. This engineering design tool is a professional solution for drawing schematics for electrical wiring diagrams, control circuit diagrams, pneumatics, and hydraulics. 99/2 years 8. For details, please download the full PDF version. One of the main advantages of free modeling software is that they are often more intuitive than professional software, and are user-friendly for all experience levels. Transform your 3D CAD designs into interactive walk-throughs and presentations in order to evaluate design alternatives in real time with colleagues, customers, and others. Sculptris @pixologic Sculptris serves as a wonderful introduction to digital sculpting. Files Format: STL, OBJ Download it! Leopoldy Leopoldy offers an online surface 3D design software. The software is adapted to create complex models, and you can even upgrade it with additional features for game development or to render photo-realistic images. This software provides you features that make easier to start designing your 3D file. This industrial design software tool is useful for ideation, as it makes it possible to “publish and find the best 3D content. Key Features: Move creative ideas into full production-ready 3D reality Creative Design approach delivers unparalleled design freedom Get total control of design and engineering experiences without restrictions by choosing parametric, explicit, or a combination of modalities on-demand in a single environment Dual Kernel Collaboration Technology Cost: FREE trial available; Contact for a quote 28. Files Format: Shark FX V9 also helps design engineers with rapid design iterations involving mesh and precise feature operations, with its ability to retain the control mesh as part of a feature tree. learn more >> ZW3D, empowered by parametric technology and all-in-one CAD/CAM solution, can simplify mechanic designing by supporting synchronization of changes on parts, assembly and CNC programs, saving leads time with reduced communication cost. The practical calculations provided by TechCalc100 are useful for mechanical, electrical, structural, and physics calculations, making this engineering scientific software by Designerswest a handy engineering design tool. With thousands of modeling and editing tools, Rhino is a complete engineering design tool that enables you to create, edit, analyze, document, render, animate, and translate NURBS curves, surfaces, and solids, point clouds, and polygon meshes without any limits on complexity, degree, or size beyond those of your hardware. With CATIA, design engineers have the ability to model products in the context of real-life behavior, allowing them to “design in the age of experience. IronCAD offers INOVATE, a 3D design collaboration tool for design engineers that allows for creating, modifying, interrogating, and

communicating 3D designs, from concept to production. Key Features: Includes the Modeler brush, a smart polygonal modeling system for simplifying the creation process Bring more complexity and detail to your designs with a low polygon count NanoMesh and ArrayMesh allow for multiple instances of any object to be created and then adjusted in just seconds Render with complete details Cost: Single User License: \$795 digital download Volume License: \$795 each, with five seat minimum on all volume license orders Floating License: Contact for a quote Academic and Educational License: Contact for a quote 6. EDS is engineering design software that integrates with CAD software to extend design capabilities with electrical concepts, thereby allowing design engineers to think and work with “breakers, circuits, and terminal strips” rather than “circles, lines, and arcs. Blender @tonroosendaal An industrial design tool that is better suited to quick ideation and rendering, Blender is free design software for any purpose. SketchBook Pro @SketchBook Pro An award-winning application, Autodesk SketchBook Pro is available on desktop and mobile tablets. RecurDyn Professional @FunctionBayGmbH RecurDyn Professional is a CAE software solution for design engineers that consists of three modules: modeler, solver, and ProcessNet. This 3D software has an intuitive user-interface, allowing you to do some solid modeling and geometric shapes. ” Key Features: Social design environment accessible through powerful 3D dashboards that drive business intelligence, real-time concurrent design, and collaboration across all stakeholders Provides an instinctive 3D experience with world-class 3D modeling and simulation capabilities that optimize the effectiveness of each user Delivers an inclusive product development platform that easily integrates with existing processes and tools, to enable multiple disciplines to leverage powerful and integrated specialist applications across all phases of the product design and development process Cost: Contact for a quote 4. Key Features: Speeds design development and detailing Improves visualization and communication Eliminates design interference issues Checks design functionality and performance, without the need for physical prototypes Built-in 3D direct modeling module Built-in 2D/3D movement simulation module Cost: 2D/3D Pro Lifetime License: Starting at \$999 2D/3D Monthly License: \$59. 365,00 PCSHEMATIC Automation Flex 350: €1. It’s possible to create complex 3D models with this 3D modeling software. Key Features: Provides two main modeling techniques: constructive geometry (CSG) and extrusion of 2D outlines Read design parameters from DXF files Read and create 3D models in the STL and OFF file formats Cost: FREE 11. Experimental plugins include OpenFX, OFF, RIB and X formats. Key Features: An advanced electrical CAD solution for automation, installation, pneumatics, and hydraulics Easily maintain an overview of your electrical designs Focus on the electrical design while the program handles the practical side Provides a comprehensive series of functions designed for electrical projects and supports international electrical design drawing standards Cost: PCSHEMATIC Automation – Floating network license: €3. You can get your model in 10 minutes with CSG feature, and you don’t need any CAD experience to use it. Today we are going to give you an update about the 24 Best Free CAD software for both personal or professional purpose that can be used to assist you in the creation, analysis, manipulation or optimization of CAD model. It connects your entire product development process in a single cloud-based platform that works on both Mac and PC. The triangle reduction filter works great, letting you set the target number of triangles to reach and other useful options to preserve textures and topology. Shades Technics has been manufacturing supplementary coach furniture for 24 years. 4. Key Features: Powerful, easy-to-use software for electronics designers and engineers Build schematics faster with the unique, intelligent Smart Wires technology for connecting terminals and rearranging components Presentation-quality schematics Rapid symbol creation Powerful plotting engine Behavioral sources and expressions Cost: CircuitLab Pro: \$399/year or \$39/month CircuitLab Platinum: \$999/year or \$100/month – Easily access new features and get CircuitLab Platinum Support 31. Key Features: A growing ecosystem of apps and software tools that include Solid Edge Design, Solid Edge Simulation, Solid Edge Manufacturing, Solid Edge Design Management, and more Exceptional tools for creating and managing 3D digital prototypes Guide your projects toward an error-free, accurate design solution Merges design management capabilities with the CAD tools design engineers use every day Cost: Contact for a quote 9. With SOLIDWORKS 2016, industrial designers can fast-track their designs through manufacturing, thanks to the new user interface, new tools, and new process enhancements that enable users to complete work faster and easier than ever before. PML, a southern California CAD/CAM engineering services company Focused on the automotive industry, Grand Rapids Spring & Stamping, Inc. Key Features: State of the art technology converts meshes into optimized smooth NURB models suitable for solid modeling operations Exports to DWG, IGES, and STEP file formats Versatile, precise blending, chamfering, and shelling Cost: Mac download: \$2,295 Windows download: \$2,295 USB Flash Drive: \$2,305 DVD in Sleeve – Mac/Windows: \$2,295 38. Key Features: Uninhibited free-form 3D modeling tools Accuracy for designing, prototyping, engineering, analyzing, and manufacturing nearly anything Compatible with nearly all other design, drafting, CAM, engineering, analysis, rendering, animation, and illustration software Read and repair meshes and challenging IGES files Cost: Commercial Bundles, Single User Rhino/Flamingo/Penguin/Bongo Bundle: \$1,695 Rhino/Flamingo Bundle: \$1,295 Rhino/Brazil Bundle: \$1,495 Full, Single User Rhino 5 for Windows: \$995 Rhino 5 for Mac: \$495 7. Sketchfab @Sketchfab Sketchfab makes 3D easier than ever before. You can also use it for 2D draftings. ” Key Features: Fast iterations Built-in sculpting and painting Precision modeling that features award-winning MeshFusion Booleans Photorealistic rendering tools Use MODO alongside other applications in the CAD pipeline Cost: FREE trial available for 30 days Individual License: \$1,799 12. ZW3D @ZWSOFT ZWSOFT is a well-known CAD/CAM solutions provider. Key Features: RecurDyn Modeler is a pre-processor that creates analysis models RecurDyn Solver performs fast analysis with the optimized integrator after constructing the equation of motion Three types of contact: general contact, analytical contact, and toolkit contact Separates subsystems from complex systems and analyzes each subsystem Cost: Contact for a quote 35. FreePCB is a design tool that helps design engineers quickly create PCBs of 1 to 16 copper layers. Solve Space is available with Windows Mac OS and Linux. It promises to help industrial designers “document with confidence,” because it enables them to create designs and speed documentation work with its built-in productivity tools. Key Features: Open Subdiv support Mesh and surface modeling Polygon, spline, and NURBS-based modeling A360 rendering support Integrated rendering options AutoCAD and Revit interoperability Cost: FREE trial available Monthly: \$185 1-year: \$1,470 2-year: \$2,940 18. XCircuit Tim Edwards created XCircuit, a program for drawing publishable-quality electrical circuit schematic diagrams and related figures, that is available as an online engineering design tool. Formats: EPS, PDF, SVG, OBJ, STEP, DXF, STL Download it! We hope that you’ll find a software package that will fit with your project and your expertise, thanks to this top. This industrial design software tool is an integrated product design solution that “streamlines and accelerates the product development process for engineers who need to deliver innovative products in a collaborative environment. This general-purpose software platform is based on advanced numerical methods for modeling and simulating physics-based problems so that design engineers can account for coupled or multi physics phenomena. Try ZW3D full version for free! Make your CAD/CAM works easier, get ZW3D 30-day trial now! Design engineers require specialized software, tools, and apps to research and develop ideas for new products and their associated systems. Formats: STL Wings 3D Even though Wings 3D is accessible for beginner CAD users, it is also a software used for complex shapes thanks to its advanced subdivision modeler. Grasshopper Providing algorithmic modeling for Rhino, Grasshopper is an industrial design software tool for designers who need to explore new shapes using generative algorithms. solidThinking’s EVOLVE gives industrial designers the tools they need to develop forms faster, either with Windows or Mac OS X

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