

A Sampling of Conceptual Design Tools				
Product	Capabilities	Target Industry	Target Users	More Information
<b>Autodesk Alias (Alias Design, Alias Surface, and Alias Automotive)</b>	Design, sketching, modeling, surfacing, and visualization tools	Consumer products and automotive	Industrial designers	<a href="http://autodesk.com/alias">autodesk.com/alias</a>
<b>Autodesk FormIt (mobile app)</b>	Create new or capture and manipulate existing designs to continue the BIM process by taking conceptual models directly into Autodesk Revit	AEC	Architects, construction engineers	<a href="http://autodeskformit.com/">autodeskformit.com/</a>
<b>Autodesk Fusion 360</b>	Provides an integrated tool for bringing mechanical, industrial, and conceptual design tools into one cloud-based service	Industrial and mechanical	Product designers, industrial designers	<a href="http://autodesk.com/fusion360">autodesk.com/fusion360</a>
<b>Autodesk Revit</b>	Integrated conceptual design for massing studies, space planning, visualization, and rendering	AEC	Architects, construction engineers	<a href="http://autodesk.com/revit">autodesk.com/revit</a>
<b>Autodesk SketchBook Pro</b>	Sketching and painting	Illustration	Professional artists, illustrators, and designers	<a href="http://autodesk.com/products/sketchbook-pro">autodesk.com/products/sketchbook-pro</a>
<b>Bentley AXSYS.Process</b>	2D front-end engineering to minimize project costs	Plant design	Process engineers	<a href="http://bentley.com/en-US/Products/Bentley+AXSYS+Process/">bentley.com/en-US/Products/Bentley+AXSYS+Process/</a>
<b>Bentley GenerativeComponents</b>	A BIM-integrated free-form design that resolves into geometric shapes	AEC	Architects and engineers	<a href="http://bentley.com/en-US/Products/GenerativeComponents/">bentley.com/en-US/Products/GenerativeComponents/</a>
<b>Bentley PlantWise</b>	3D front-end engineering to minimize project costs	Plant design	Process engineers	<a href="http://bentley.com/en-US/Products/PlantWise/">bentley.com/en-US/Products/PlantWise/</a>
<b>Geomate TurboCalc</b>	Combines parametric 2D sketching, calculation, and optimization	Fabrication-assembly, construction, and machine design	Machine designers, process engineers, and product designers	<a href="http://inventbetter.com">inventbetter.com</a>
<b>Graphisoft ArchiCAD 17</b>	Integrated BIM with MORPH tool for conceptual design process, enabling custom objects/structures with pushing and pulling models; architects can also define 3D cut planes	AEC	Architects, designers, and engineers	<a href="http://graphisoft.com/archicad">graphisoft.com/archicad</a>
<b>IronCAD DRAFT</b>	2D drafting tool that can analyze, render, and reference external 3D model	Fabrication-assembly, electrical, electronics, automotive, aerospace, etc.	Machine designers, process engineers, and product designers	<a href="http://ironcad.com/products/ironcad-draft">ironcad.com/products/ironcad-draft</a>
<b>IronCAD INOVATE XG</b>	Integrated 3D desktop tool for creating, modifying, interrogating, and collaboration with photorealistic images and animation; bridges the gap between viewers and full-blown CAD	Fabrication-assembly, electrical, electronics, automotive, aerospace, etc.	Machine designers, process engineers, and product designers	<a href="http://ironcad.com/products/inovate">ironcad.com/products/inovate</a>

## CADALYST LABS REPORT

A Sampling of Conceptual Design Tools <i>continued</i>				
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<b>PTC Creo Direct</b>	Direct modeling integrated 3D CAD, can share data with other PTC Creo apps; users can move between 2D and 3D without losing the design intent	Wide industry applicability including product, industrial, fabrication-assembly, electrical, electronics, automotive, aerospace, etc.	Machine designers, process engineers, and product designers	<a href="http://ptc.com/product/creo/direct">ptc.com/product/creo/direct</a>
<b>PTC Creo Layout</b>	Stand-alone 2D CAD app that can be leveraged for 3D design using PTC Creo Parametric for detailed design	Wide industry applicability including product, industrial, AEC etc.	Professional designers, process engineers, and product designers	<a href="http://ptc.com/product/creo/layout">ptc.com/product/creo/layout</a>
<b>PTC Creo Parametric</b>	Parametric integrated 3D CAD; can share data with other PTC Creo apps to conduct full-scale design that provides CAD/CAM/CAE functions; users can move between 2D and 3D without losing the design intent	Wide industry applicability including product, industrial, fabrication-assembly, electrical, electronics, automotive, aerospace, etc.	Machine designers, process engineers, and product designers	<a href="http://ptc.com/product/creo/parametric">ptc.com/product/creo/parametric</a>
<b>PTC Creo Sketch</b>	Stand-alone 2D sketching design app with seamless model transfer into detailed designing Creo tools	Wide industry applicability including product, industrial, artwork, etc.	Artists, illustrators, and designers	<a href="http://ptc.com/product/creo/sketch">ptc.com/product/creo/sketch</a>
<b>Siemens PLM Software NX</b>	Integrated product 2D/3D CAD/CAM/CAE with synchronous technology; offers multidiscipline simulation, motion, thermal, flow multiphysics	Wide industry applicability including product, industrial, fabrication-assembly, electrical, electronics, automotive, aerospace, etc.	Machine designers, process engineers, and product designers	<a href="http://siemens.com/nx">siemens.com/nx</a>
<b>solidThinking EVOLVE</b>	Capture initial sketch, explore styling, and visualize products in photorealistic rendering	Wide industry applicability including product, industrial, artwork, etc.	Design engineers, product designers, and architects	<a href="http://solidthinking.com/evolve">solidthinking.com/evolve</a>
<b>solidThinking INSPIRE</b>	Works with other CAD tools to allow structural simulation to determine material layout given a load as input	Wide industry applicability including product, industrial, artwork, etc.	Design engineers, product designers, and architects	<a href="http://solidthinking.com/inspire">solidthinking.com/inspire</a>
<b>SolidWorks</b>	Basic sketching to advanced kinematics; auto trace on imported and 3D scanned images with surfacing tools	Product design and machinery design	Product designers and machine designers	<a href="http://solidworks.com">solidworks.com</a>
<b>SolidWorks Mechanical Conceptual</b>	Machinery design such as joints, cams, and other moving parts; cloud-based collaboration; predictive computing and 2D to 3D motion enhance conceptual designing	Industrial machinery	Machine designers, process engineers	<a href="http://solidworks.com/sw/products/3dexperience/solidworks-mechanical-conceptual-overview.htm">solidworks.com/sw/products/3dexperience/solidworks-mechanical-conceptual-overview.htm</a>
<b>SpaceClaim Engineer</b>	Provides history-free modeling for proposal and bidding, industrial design, etc.; quick geometry editing, repair, and modeling for simulation	Wide industry applicability including product, industrial, fabrication-assembly, electrical, electronics, automotive, aerospace, etc.	Machine designers, process engineers, and product designers	<a href="http://spaceclaim.com">spaceclaim.com</a>