



# 3D Printing with Autodesk: Create and Print 3D Objects with 123D, AutoCAD and Inventor

By John Biehler, Bill Fane

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## 3D Printing with Autodesk

### Create and Print 3D Objects with 123D, AutoCAD, and Inventor

#### Create amazing 3D-printable objects fast with Autodesk 123D!

Imagine it. Then print it! Autodesk 123D gives you all the tools you need and it's free. This easy, full-color guide will help you fully master 3D printing with Autodesk 123D even if you've never done any of this before. Authors John Biehler and Bill Fane have helped thousands of people join the 3D printing revolution—now it's your turn. With step-by-step photos and simple projects, they teach you how to make the most of the whole 123D suite on Windows, Mac, and iPad. New to 3D printing? You'll learn pro techniques for creating models that print perfectly the first time. Want to start fast? Discover how to scan photos straight into your models. Don't have a 3D printer? Learn how to work with today's most popular 3D printing services.

**John Biehler** discovered 3D printing several years ago and built his first 3D printer shortly thereafter. Since then, he's shared his 3D printing knowledge with thousands of people at live events throughout Canada and the Pacific Northwest and through online and broadcast media. He co-founded Vancouver's fastest-growing group of 3D printing enthusiasts.

**Bill Fane**, an Autodesk Authorized Training Centre (ATC) certified instructor, has designed with AutoCAD since 1986. Fane has lectured on AutoCAD and Inventor at Autodesk University since 1995, and at Destination Desktop since 2003. He has written 220 The Learning Curve AutoCAD tutorials for CADalyst and holds 12 patents.

From start to finish, *3D Printing with Autodesk 123D* covers all you need to know. So stop waiting and start creating!

- Quickly get comfortable with the 123D workspace and key features
- Learn the essentials of effective 3D object design

- Practice 3D design hands-on with simple guided exercises
- Generate detailed models from photos with 123D Catch
- Create new 3D character “monsters” with 123D Creature
- Prepare any 3D model for successful printing
- Move from existing 3D CAD tools (if you’ve ever used them)
- Design parts that are easy to print, and multi-part models that can be printed “pre-assembled”
- Print through leading 3D printing services such as Shapeways, Ponoko, Fablab, and Hackerspaces

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# 3D Printing with Autodesk: Create and Print 3D Objects with 123D, AutoCAD and Inventor

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### **Editorial Review**

#### About the Author

John Biehler has been writing online about technology since 1999. An avid photographer and generally curious geek, he discovered 3D printing a number of years ago and built his first 3D printer shortly thereafter. Since then, he has been actively sharing his knowledge about the technology with thousands of people at various events and conferences in Western Canada and the Pacific Northwest, on television and radio, as well as online through his website. He cofounded a Vancouver-area group of 3D printer builders and enthusiasts that has grown exponentially since it started and as the technology heads toward the mainstream.

Bill Fane was a product engineer and then product engineering manager for Weiser Lock in Vancouver, British Columbia, for 27 years and holds 12 U.S. patents. He has been using AutoCAD for design work since Version 2.17g (1986) and Inventor since version 1.0 beta (1996). He is a retired Professional Engineer and an Autodesk Authorized Training Centre (ATC) certified instructor. He began teaching mechanical design in 1996 at the British Columbia Institute of Technology (BCIT) in Vancouver, including such courses as AutoCAD, Mechanical Desktop, Inventor, SolidWorks, machine design, term projects, manufacturing processes, and design procedures. He retired from this position in 2008. He has lectured on a wide range of AutoCAD and Inventor subjects at Autodesk University since 1995 and at Destination Desktop since 2003. He was the AUGI CAD Camp National Team instructor for the manufacturing track. He has written more than 220 "The Learning Curve" AutoCAD tutorial columns for *CADalyst* magazine since 1986. He is the current author of the book *AutoCAD for Dummies*. He also writes software product reviews for *CADalyst*, *Design Product News*, and *Machine Design*. He is an active member of the Vancouver AutoCAD Users Society, "the world's oldest and most dangerous." In his spare time he skis, water skis, windsurfs, scuba dives, sails a Hobie Cat, rides an off-road motorcycle, drives his '37 Rolls Royce limousine or his wife's '89 Bentley Turbo R, travels extensively with his wife, and plays with his grandchildren.

### **Users Review**

#### **From reader reviews:**

#### **Juan McCain:**

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**Doris Brown:**

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**Marylou Arroyo:**

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**Cherry Simard:**

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