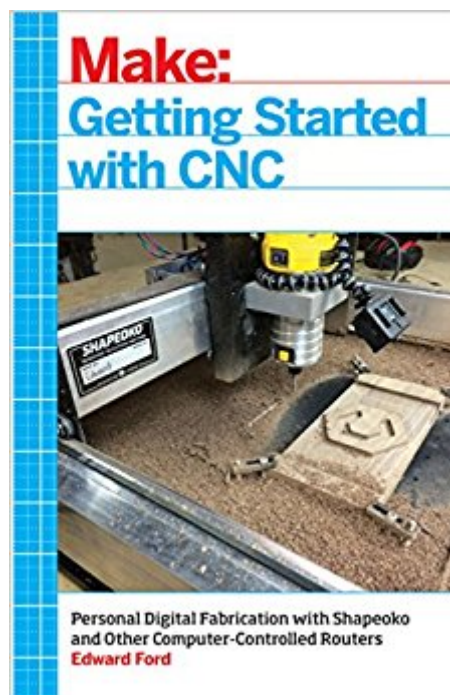




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Getting Started With CNC: Personal Digital Fabrication With Shapeoko And Other Computer-Controlled Routers (Make)



Synopsis

Getting Started with CNC is the definitive introduction to working with affordable desktop and benchtop CNCs, written by the creator of the popular open hardware CNC, the Shapeoko. Accessible 3D printing introduced the masses to computer-controlled additive fabrication. But the flip side of that is subtractive fabrication: instead of adding material to create a shape like a 3D printer does, a CNC starts with a solid piece of material and takes away from it. Although inexpensive 3D printers can make great things with plastic, a CNC can carve highly durable pieces out of a block of aluminum, wood, and other materials. This book covers the fundamentals of designing for--and working with--affordable (\$500-\$3000) CNCs.

Book Information

Series: Make

Paperback: 166 pages

Publisher: Maker Media, Inc; 1 edition (September 2, 2016)

Language: English

ISBN-10: 1457183366

ISBN-13: 978-1457183362

Product Dimensions: 5.4 x 0.5 x 8.4 inches

Shipping Weight: 11.2 ounces (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 26 customer reviews

Best Sellers Rank: #37,083 in Books (See Top 100 in Books) #5 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Technology](#) #5 in [Books > Computers & Technology > Graphics & Design > CAD](#) #11 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Manufacturing](#)

Customer Reviews

[View larger](#) [Is CNC Your Cup of Tea?](#) If you think a CNC might be your cup of tea, but don't know where to start—this book is for you! You'll learn practical machining tips and tricks. [Edward Ford's Best CNC Tips](#) Although CNC has been around for 50-plus years, the last five years have been a boom. With a fully capable CNC machine more affordable now than at any point in history, there are very few barriers remaining for literally anyone who is interested to get started. From the hardware side, machines have become affordable and reliable and, from the software side, amazing development has been made over the last two to

three years, making machines easier to use than ever before. Understand the workflow. Knowing how to go from idea to part is half the battle of using a CNC machine. Once you master the workflow, you can focus your energy on coming up with and machining amazing projects! Practice without a machine. Free and Open Source design and toolpath tools are available, mix those together with an open source G-Code visualizer and you can practice doing entire projects without ever turning on a machine. Keep Learning. It's amazing how much there is to learn about making projects with a subtractive CNC machine. You can get going very quickly, but there's always a new way to make something that you might now have seen before. Be Safe! Never underestimate the importance of wearing safety glasses and keeping your hands clear of sharp bits turning thousands of revolutions per minute!

~~edit biography~~BiographyIn 2011, Edward designed and released Project Shapeoko via Kickstarter. Shapeoko has become one of the most popular desktop CNC machines on the market and continues to be a market leader and trendsetter. In 2014, Edward co-founded Carbide 3D - a company that specializes in the design and production of desktop manufacturing equipment such as the Shapeoko and Nomad lines of CNC machines. At Carbide 3D, Edward leads the Shapeoko product line and develops other great desktop manufacturing software and equipment. Learn more about Edward and Getting Started with CNC at gettingstartedwithcnc.com

I assembled a ShapeOko 3 earlier this year and immediately consumed everything I could find in all the forums and YouTube channels, carving 2.5 and 3D objects in woods, plastics, and aluminum. I wish I had had this book getting started. It is a quick, enjoyable read but packs a lot of great info in one place.

Edward Ford has been there and done that and it shows! He shares his insights as well as his hard learned lessons in this book. CNC isn't hard to learn, but it is foreign as a new experience. If you are new to CNC, do yourself a favor, get this book, find somewhere comfortable, and enjoy the read! Lots of info presented well! Want to take it in faster, read it out loud! I wish I had found it earlier in my CNC experience.

This seems to be a nice comprehensive introduction to CNC for beginners. I know nothing so this book is just the thing for me. I'm sure time has moved on since it was written, but there's so much basic terminology related to CNC that I hope this book will give me a jump start.

This is a very clear and concise 141-page book that will be very helpful for anyone just getting started with computer-controlled carving of wood, with a few things applicable to other types of CNC. Ford has kept the Shapoko infomercials to a minimum, and included the most important material. I would like to have seen more detail (and a fatter book) on several occasions. But waiting for the book to be published, I learned a lot elsewhere and am no longer the ideal target audience for this book. The book has a few small technical mistakes, but is generally well written and useful.

Well written and to the point, essential reading for anyone considering the purchase of a CNC machine.

Great!

Good ok for noobs but lacks some detail for those who have basic knowledge of the subject I would recommend to someone who has no experience with CNC machines but not someone with some familiarity with cnc cad and machining

Ok book. Definitely for the beginner. Good. Easy read. Formatted well. Again, for beginners.

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