



# **CNCKing.com Volume 4: Rise of the CNC - Ultimate CNC Design Course (Wood Marvels)**

*Jonathan Cantin*

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# CNCKing.com Volume 4: Rise of the CNC - Ultimate CNC Design Course (Wood Marvels)

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**CNCKing.com Volume 4: Rise of the CNC - Ultimate CNC Design Course (Wood Marvels)** Jonathan Cantin

Two years in the making - CNCKing.com: Rise of the CNC ~ Ultimate CNC Design Course teaches the fundamentals of designing products to be cut with a CNC Table Router, CNC 3D Printer or CNC Laser Cutter & Engraver. Across more than 450 pages, 64 projects are shown in various formats to help teach the reader how to successfully design for these CNC machines.

This book features interviews with the movers and shakers of the CNC industry including designers, company directors and a buyers guide to help you select the best CNC machine for your purposes. There are also extensive tips and tricks so that you get the most out of your CNC machine.

Foreword by Ben Heck

Message from Jon

CNCKing.com: How It All Began

Tool and Material Requirements

CNC Machine Background

CNC Laser vs Routers vs 3DP

Top 10 CNC Operational Tips

## **CNC LASER**

Technological Overview

CNC Opportunities: Warehouse to Garage

Interview with Simon Moore, Director of Trotec Laser Australia

A word about Model Complexity

Toy Design 101: Behind the Scenes

\* Castle Bank

\* CH47

\* Chinook Helicopter

\* Easter Island Head

\* Electronics Award

\* Ferris Wheel B

\* Ford Model T

\* Home Gym

\* Mars Explorer

\* Mars Opportunity

\* Mangonel Siege Weapon

\* Mangonel B Siege Weapon

\* Stereo Bank

\* Rocket Coaster

\* Rusks Plane

- \* Science Award
- \* Shopping Cart
- \* Sydney ANZAC Monument
- \* Sydney Harbour Bridge
- \* Tower Bank
- \* TV Bank

### Jonathan Engel's Design Philosophy

#### Laser Model Templates & Assemblies

- \* Abacus B
- \* Bird Feeder
- \* Bird House B
- \* Bird House C
- \* Eiffel Tower
- \* Electronics Award
- \* Fish Pad
- \* Four-in-a-Row Game
- \* Japanese Miyajima Gate
- \* Pen and Pencil Holder
- \* Rocket Coaster
- \* Eiffel Tower and Japanese Miyajima Gate: Behind the Designs

### **CNC TABLE ROUTER**

Technological Overview

CNC Opportunities: Size Matters

Interview with Ted Hall, Founder and CEO of ShopBot Tools Inc.

#### Router Model Templates & Assemblies

- \* 1911 Ford Model T Torpedo
- \* Runabout
- \* Army Transport Truck
- \* Brontosaur
- \* Centrosaur
- \* CH47 Chinook Helicopter
- \* Desktop Organizer
- \* Desktop Organizer B
- \* Desktop Organizer C
- \* Dolphin
- \* Easter Island Head Storage
- \* Elephant
- \* Future Car
- \* Future Car B
- \* Light Table
- \* Mangonel Siege Weapon
- \* Mangonel Siege Weapon B
- \* Medieval Bank
- \* P38 Lightning Aircraft
- \* Parasaurolophus

- \* Pen and Pencil Holder B
- \* Platform Crane B
- \* Pterodactyl
- \* Rhinoceros
- \* Stegosaurus
- \* Straddle Carrier B
- \* Submarine

Steve's Osage Orange Box with Live Edge

Interview with Ralph Bagnall, Owner of ConsultingWoodWorker.com

CNC'ed Guns: Unwarranted Fear and Paranoia

Brian Laurence's Design Process

Designer's Corner: David Newman and Jerry Rutherford

\* Bobcat MK3 (CNC laser)

\* Bobcat MK3 (CNC table router)

\* Helicopter (CNC laser)

\* Helicopter (CNC table router)

## **CNC 3D PRINTER**

Technological Overview

CNC Opportunities: Develop Strategic Partnerships

Interview with Cathy Lewis, Director of Worldwide Marketing at 3D Systems

Extrusion to Stereolithography

Choosing PLA over ABS

Tale of three Pyramids: Virtual to Physical

Erupting Pyramid

Egyptian Pyramid

Mayan Pyramid

Modeling an Explosive Volcano

Interview with Dr. Conor MacCormack, CEO of Mcor Technologies

Kaetemi's Design Process

Copyright & Liability in 3D Printing

Interview with Bathsheba Grossman

## **CNC PLASMA**

CNC Plasma Technological Overview

Interview with Jeff Knoll, Marketing Manager for Lincoln Electric

Closing Thoughts

Your Turn: Design Your Own!

Image Credits & Info

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