



# Programming FPGAs: Getting Started with Verilog (Electronics)

By Simon Monk




**Programming FPGAs: Getting Started with Verilog (Electronics)** By Simon Monk


*Take your creations to the next level with FPGAs and Verilog*

This fun guide shows how to get started with FPGA technology using the popular Mojo, Papilio One, and Elbert 2 boards. Written by electronics guru Simon Monk, *Programming FPGAs: Getting Started with Verilog* features clear explanations, easy-to-follow examples, and downloadable sample programs. You'll get start-to-finish assembly and programming instructions for numerous projects, including an LED decoder, a timer, a tone generator?even a memory-mapped video display! The book serves both as a hobbyists' guide and as an introduction for professional developers.

- Explore the basics of digital electronics and digital logic
- Examine the features of the Mojo, Papilio One, and Elbert 2 boards
- Set up your computer and dive in to Verilog programming
- Work with the ISE Design Suite and user constraints files
- Understand and apply modular Verilog programming methods
- Generate electrical pulses through your board's GPIO ports
- Control servomotors and create your own sounds
- Attach a VGA TV or computer monitor and generate video
- All source code and finished bit files available for download

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### Editorial Review

About the Author

**Dr. Simon Monk** has a bachelor's degree in cybernetics and computer science and a Ph.D. in software engineering. He is now a full-time writer and has authored numerous books, including *Programming Arduino*, *30 Arduino Projects for the Evil Genius*, *Hacking Electronics*, and *Fritzing for Inventors*. Dr. Monk also runs the website monkmakes.com, which features his own products. <?xml:namespace prefix = "o" ns = "urn:schemas-microsoft-com:office:office" />

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