

Peter Fabinski

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Objective

To apply knowledge of Computer Engineering and gain experience and skills in a constructive environment.

Education

- **Rochester Institute of Technology** **Rochester, NY**
BS/MS Dual Degree in Computer Engineering 2017 - 2022
GPA: 4.00/4.00
Awards: Dean's List all semesters, RIT Presidential Scholarship
Courses: Design & Test of Multi-core Chips Complex Digital Systems Verification
 Reconfigurable Computing Real-time & Embedded Systems
 Digital IC Design Computer Architecture
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Skills

- **Programming Languages:** C, VHDL, SystemVerilog, UVM, Python, Perl, ARM & MIPS ASM, Java, Bash
 - **Software:** Vivado, SimVision, MGC Pyxis, Calibre, Quartus, ModelSim, Altium, Git, PSpice, ROS, Office
 - **Hardware:** FPGA, Microcontroller, Oscilloscope, Multimeter, Signal Generator, Soldering Iron, PC hardware
 - **Other:** Extensive PC assembly and maintenance experience; practical knowledge of networking; experience managing mail and web servers on Linux
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Experience

- **Critical Link, LLC** **Syracuse, NY**
Intern Engineer May - December 2019
 - Managed the review and release processes for various products, PCA/PCB designs, and documents.
 - Reviewed additions/changes to company component model library (footprints, symbols, and parameters), verifying against information from datasheets.
 - Rewrote Python script for bulk component information gathering to use an API instead of web scraping.
 - Documented steps to modify existing PCAs to match new revisions, as well as creating documentation for unreleased test fixtures.
 - **Microworx Computer Sales and Service** **Rochester, NY**
Jr. System Builder 2016 - 2019 (15 months total)
 - Assembled, configured, and tested numerous desktop computers for enterprise and personal environments. Followed an established build procedure to record parts used, track progress, and ensure that completed PCs function correctly.
 - Began development of a Visual Basic + SQL inventory tracking system to replace paper sign-out sheets for high-value components.
 - Worked on fixes and improvements to the internal Perl CGI-based ticketing system, as well as the quote-creation tool for new PCs.
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Projects/Labs

- Produced coverage-driven randomized SystemVerilog and UVM testbenches for DTMF receiver module.
- Designed and tested MAC unit w/BIST (HDL synthesis, autolayout) and 4-bit full adder (manual layout).
- Created FPGA-based image-filtering system with both VHDL and high-level synthesis implementations.
- Used VHDL to create pipelined MIPS processor, determining maximum clock frequency by timing simulation.
- Followed Agile process in 4-person team to develop a fully-featured Checkers webapp in Java.
- Installed and continue to maintain a Linux-based mail/web server with SSL, as well as other applications.