Owen Chiaventone

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EDUCATION

Bachelor of Science, Computer Engineering
Missouri University of Science and Technology, Rolla, MO,   December 2017
GPA: 4.00

SKILLS

Programming Languages: C++, VHDL, Embedded C, Python, MATLAB
Software: Git & Mercurial, Eagle, LaTeX, NX, Simulink, Libero, Quartus-II
Operating Systems: Linux / POSIX, VxWorks, TI-RTOS.
Embedded Hardware: FPGAs, x86, ARM Cortex M, Raspberry Pi, AVR, 8051
Licenses: FCC Amateur Radio License - Technician

EXPERIENCE

Sandia National Laboratories   June 2015 - Present
Monitoring Systems and Technologies R&D Intern
- FPGA design and verification in aerospace applications
- Explored fault-tolerant computing with COTS hardware
- Programmed verification and testing tools for electrical hardware

EXTRA-CURRICULAR ACTIVITIES

Missouri S&T Mars Rover Design Team   2013-Present
Telemetry & Controls, Science
- Developed motherboard software for 2015 rover
- Developed electronics and firmware for onboard Raman spectrometer
- Designed and built control systems for site survey and sample collection
- Worked with embedded communication protocols: UART, I^2C, RS485, IP
- Designed and populated printed circuit boards for data collection and actuator control

W0EEE Amateur Radio Club   2014-Present
- Rebuilt two-meter band repeater using raspberry pi

T.I.E.S. (Technological Innovations and Entrepeneurs Society)   2014

AWARDS

National Merit Scholar   2013-present
Bright Flight   2013-present
Computer Science Departmental Scholarship   2013