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

CURRICULAR 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