Richard Inocencio Smith

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EDUCATION

Oregon State University   2016-Present
Electrical & Computer Engineering

- GPA: 3.82 (updated 2/24/2020)
- Honors Scholar, Academic Achievement Award

WORK EXPERIENCE

ATI Specialty Alloys & Components   2019-2020
  Millersburg, OR

- MECOP Student Engineer: Manage the execution of industrial power and controls projects for various facilities within a metals manufacturing plant.

Oregon State University SIM Lab   2018-Present

- Lab Technical Assistant: Design and develop test benches in Python2.7, rapid hardware prototyping and PCB design.

St. John's Ace Hardware   2016-2018
  Portland, OR

- Sales Associate, Cashier: Inventory handling, managing main customer service desk, assisting and directing customers with product inquiries.

SKILLS & TECHNICAL EXPERIENCE

Oregon State University AIAA Hybrid Rocket Team   2018-Present

- Launch & Flight Control Systems Engineer: Design and prototype ground equipment and avionics related to fueling, engine control, and remote telemetry for the 2019-2020 OSU Hybrid Rocket.

Oregon State University Global Formula Racing Team   2016-2018

- cPowertrain Subteam Engineer: Designed an analog sensor CAN Bus interface based on an AVR microcontroller for datalogging. Assisted in manufacture of 2017 formula car main engine wiring harness.

Computer & Programming Skills

- **Operating Systems:** Linux (primarily Debian), Windows 7/10, Mac OSX
- **Languages:** C, C++, Python, SystemVerilog
- **Tools:** Vim, Bash, Autodesk Inventor, Autodesk EAGLE, GCC/G++, Valgrind, Adobe Premiere Pro

Personal Projects

- **OBDII Dash Logger:** Designed an microcontroller system to interface and record engine performance metrics via an ELM327 UART.

- **MQTT-based Appliance Automation:** Automated various household appliances using relay, ESP8266s, and a master control node running a Mosquitto broker and python script.

- **OpenCV-controlled Robot:** Used webcam, Python OpenCV, and a Raspberry Pi to help a simple robot navigate coordinate points on a 2D plane.

- **Python Chore Manager:** Designed a Python scheduling system to automatically rotate and assign chores to household roommates via email on a daily basis.