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Andrew Ramsey

Education

- Aug. 2014 – Present **Computer Engineering, Rochester Institute of Technology, Overall GPA: 3.95, Honors**
- Digital System Design I
 - Assembly Language with Lab
 - Software Engineering
 - Circuit Analysis I with Lab
 - Computer Science I & II
 - Product Innovation

Computer Skills

- Languages: Python, Assembly, C, Java, LaTeX, VHDL, MATLAB, Bash
Software: Linux, Git, Keil μ Vision, OrCAD PSpice, Altera Quartus, ModelSim, Vim
Interests: Embedded Systems, Machine Learning, Open Source, Hardware Evolution
Hardware: Cortex-M0+, Oscilloscope, Multimeter, Function Generator, Power Supply

Projects

- Dec. 2015 – Present **Mastermind**
The game of Mastermind on the Freescale Freedom KL46Z
- Wrote mixed C and ARM Assembly to provide software functionality
 - Enhanced the game using RGB LEDs for feedback
 - Designing a PCB to use as an outreach tool for children
- Nov. 2014 – May 2015 **Freescale Car Competition**
Built and programmed an autonomous car to compete in an international race
- Develop with MATLAB, Simulink, and mbed
 - Learn to work with others' code
- Oct. 2014 – Oct. 2015 **Clue**
An effort to recreate the board game Clue on the computer in Java
- Developed a decision model based on real world experience
 - Explored Java graphics using JavaFX
 - Self taught graph theory principles

Jobs

- Summer 2015 **Summer Laborer, Central Contra Costa Sanitary District**
Maintained the Sanitary District in good working order
- Worked independently and in groups without direct supervision
 - Launched recycled water program, ensuring customer satisfaction and environmentally friendly practices
- Aug. 2015 – Present **Teaching Assistant & Mentor, Rochester Institute of Technology**
Assist first-year students in lab exercises and adjusting to college
- Guide freshman through their first year of college
 - Grade lab exercises and reports

Leadership

- Eagle Scout Award & Scholarship
Contra Costa County Sheriff's Search and Rescue
Advanced German II