

# Andrew Ramsey

## Curriculum Vitae

6000 Reynolds Drive 0875  
Rochester, NY 14623  
☎ (925) 639-2609  
✉ axr8451@rit.edu  
🌐 ARamsey118  
17.10.1995, Los Angeles

Place holder  
picture

*Computer Engineering student interested in the fields of RF and DSP. Enjoys learning new subjects and applying them to the work at hand.*

### Education

- Aug. 2014 - **Computer Engineering**, Rochester Institute of Technology, Rochester, NY.  
Present GPA: 3.96, Honors.
- Aug. 2010 - **High School Diploma**, College Park High School, Pleasant Hill, CA. GPA:  
June 2014 4.00.

### Computer Skills

- Languages: VHDL, C, Verilog, Python, Assembly, LaTeX, Bash
- Software: Linux, Vivado, ISE, ModelSim, OrCAD PSpice, Quartus II, GNURadio, Git
- Hardware: FPGAs, SDRs, Cortex-M0+, Oscilloscope, Multimeter, Function Generator
- Interests: Hardware Design, Digital Signal Processing, Embedded Systems, Open Source

### Projects

- Dec. 2015 - **Mastermind**.  
Present The game of Mastermind on the Freescale Freedom KL46Z
- Designing a PCB to use as an outreach tool for children
  - Wrote mixed C and ARM Assembly to provide software functionality
  - Enhanced the game using RGB LEDs for feedback
- Oct. 2014 - **Clue**.  
Present An effort to recreate the board game Clue on the computer in C
- Learning how to create complex data structures in C
  - Developed a decision model based on real world experience
  - Self taught graph theory principles

Nov. 2014 - **Freescale Car Competition.**

- May 2015 Built and programmed an autonomous car to compete in an international race
- Developed with MATLAB, Simulink, and mbed
  - Processed data in real time to keep the car on track
  - Learned to work with others' code

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## Extracurriculars

Jan. 2007 - **Eagle Scout, Assistant Scout Master.**

- Present Volunteering with a local Boy Scout troop
- Teach middle and high school boys life and outdoor skills
  - Managed other scouts in order to complete projects

Sep. 2016 - **Launch Initiative, Avionics.**

- Present A club that focuses on the building and launching of rockets
- Creating a groundstation to establish ongoing comms with the rocket
  - Processed RF signals with an SDR to gather telemetry data on the flight

June 2013 - **Contra Costa County Sheriff's Search and Rescue.**

- Jan. 2016 Volunteered with the sheriff's office to find lost people
- Reunited numerous people with their families
  - Saved sheriff's office two million dollars each year
  - Trained new recruits to perform their job duties

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## Languages

English	Native Speaker	
German	Intermediate	<i>4 years of high school and 3 upper level classes in college</i>
American Sign Language	Beginner	

January 11, 2017