

# Matt Carberry

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carberry.matt@gmail.com  
(415) 606-5993

## SKILLS

*Languages & Software:* C, C++, Matlab, Python  
*Operating Systems:* Linux (Arch, Debian), Windows, OS X  
*Hardware:* Cadence (Capture, Allegro), KiCad

## EDUCATION

**Bachelor of Science, Computer Engineering** Expected June 2017  
University of California, Santa Cruz  
GPA: 3.77

**Transfer Credits** September 2013 - June 2015  
Sacramento City College, Sacramento, CA

## ACTIVITIES

### UCSC CubeSat Project

As a senior design project, I am working with a small team of people to develop the communications subsystem for a CubeSat mission. This includes a command receiver and linear transponder both designed for use on amateur radio frequencies.

**UCSC Amateur Radio Club** - President

## COURSEWORK

**Electrical Engineering:** Electronic Circuits, Signals & Systems, Analog Electronics, Feedback Control Systems

**Computer Engineering:** Computer Systems and C Programming, Logic Design, Computer Architecture, Microprocessor System Design

## EXPERIENCE

**Project Specialist** September 2011 - July 2013  
Moon Express, Mountain View, CA

- Developed web application for remotely operated telescope
- Developed software for remote control and operation of two-wheel lunar rover prototype
- Configured and modified generic AM335x VxWorks Board Support Package for use on Beaglebone
- Developed utilities to support quadcopter-based hazard avoidance algorithm testing
- Installed and configured Kerberos and OpenLDAP for authorization and authentication of internal services
- Installed and configured Apache server for Trac, Mercurial, and Alfresco
- Implemented onsite backup to NAS
- Installed and configured Mikrotik router

**Computer Programming Intern** June 2010 - August 2011  
NASA Ames Research Center, Mountain View, CA

- Lead communications system development for Lunar Micro-Rover project including support for satellite communication during remote testing phases
- Developed library for getting/setting health and configuration data from UHF Ethernet bridge