

## Education

**Carnegie Mellon University**, *School of Computer Science*.

- Expected graduation in May, 2017

## Computer skills

	Web Development	Robotics
Languages	Javascript, Python, HTML, CSS	C/C++
Platforms	Node.js, Django, Heroku	Linux, Arduino, AVR, UDOO
OSes	Linux, Windows	Miscellaneous LaTeX, Advanced BASH, Java

## Select Projects

January 2014 **Google Lunar XPrize**, *Avionics*.

- present ◦ Carnegie Mellon's project to build a lunar rover, expected to launch in September 2015.
- Work to complete the Google XPrize requirements by the deadlines
- Member of Avionics group, implementing the rover's electrical and computing systems

January 2014 **"CappoBot"**, *Engineering*.

- present ◦ Robot that uses wheel inertia to self-stabilize when thrown
- Designed in Solidworks, built with 3D printed parts
- Code written in Arduino

January 2014 **TeXDown**, *Developer*.

- LaTeX/Markdown software to take notes in math intensive courses
- Built with Node.js, hosted on Heroku

## Research and Work Experience

August 2013–present **Research Intern**, *Biorobotics Lab, Carnegie Mellon University*.

- Worked with Dr. Howie Choset
- Firmware development in C/C++ for custom chipset, implementing features specific to new hardware
- Python development for system utilities
- Repairing and maintaining electrical and mechanical systems in robot modules

July 2013 **Residence and Teaching Assistant**, *SCGSSM*.

- Taught middle school campers fundamentals of programming (in Lua) through Minecraft

2011–2013 **Information Technology Student Staff**, *SCGSSM*.

- Installed and ran Fedora Linux lab with Arch Linux NFS for computer science courses
- Worked with students with software/hardware problems

June 2012 **Research Intern**, *Clemson University*.

- Ported C interpreter and program visualizer from Python to web app for an educational system

## Honors

2013	GSSM President's Cup	2013	MIT ZeroRobotics Finalist
2013	History Bowl National Competition Qualifier	2012	FBLA Networking Concepts State Champion

## Extracurriculars

CMU	Rowing Crew (Board Member), ScottyLabs
High School	Varsity Swim team, Aquila Journal of Science, FIRST Robotics, GSSM Ambassador