

# Ethan Glassman

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Project portfolio at [efinkg.github.io/portfolio](http://efinkg.github.io/portfolio)

2000 Old Page Mill

Palo Alto CA 94304

650 575 9193

## Education

Expected Graduation May 2016

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### Washington University MS/BS Joint Degree Program

Candidate, Master of Engineering in Robotics (Electrical Engineering Department)

Candidate, Bachelor of Science Mechanical Engineering

Minors in Mechatronics/Robotics and Computer Science

### Elon University Dual Degree Program

Candidate, Bachelor of Science Engineering Physics

Minors in Physics and Applied Mathematics

## Experience

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### Jupiter Research Foundation, *Lead Mechanical Engineering Intern* Summer 2014

- Led project to integrate and deploy a 1-micron resolution optical microscope on the Liquid Robotics Waveglider marine robot platform.

### Liquid Robotics, *Advanced Technologies Intern* Summer 2013

- Designed parts using Solidworks, requisitioned components, manufactured parts in-house using a manual mill, and cast resin parts for a prototype of a new waveglider capability.

### Halcyon Molecular, *Intern* Summer 2011

- Maintained order, cleanliness, and stock of the machine shop and electronics lab.

### Senior Design, *2 Axis Computer Controlled Solar Tracking System* Fall 2014

- Built Arduino controller to align solar panels within 10 degrees of orthogonal to sun.

### FRC Mentoring: *Helping students design and build 120lb sports-playing robots in 6 weeks*

- Mechanical mentor, Team 3215, Team Prion, Greensboro NC 2011-2012
- Mechanical/CAD mentor Team 1329, Robo Rebels, St Louis MO 2013-Present

## Personal Projects

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### CNC Retrofit

- Replaced 1980s era computer hardware with LinuxCNC on a homebuilt computer, rewiring axis drivers to an interface board and writing configuration code.

### Robotic Coffeemaker

- Assembled a prototype automatic French press using repurposed consumer electronics.
- Designed code and electronics to control by Raspberry Pi computer from the Internet.

## Skills

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- Prototyping** – Design, assembly, precision measurement, and testing
  - Machining** – CNC or manual mill, manual lathe, sheet metal tools, rapid prototype.
  - CAD** – Solidworks, HSMWorks, SolidEdge, Autodesk Inventor
  - Coding Languages** – Python, Arduino, Java, MATLAB, Mathematica, LaTeX.
  - Computing** – Github, Linux, UNIX Terminal.
  - Electronics** – Mathematic circuit analysis techniques, oscilloscope analysis, soldering.