

## OBJECTIVE

Seeking a summer internship to build upon my mechanical design skills.

## SKILLS

- Fabrication
  - CNC Mill Programming and Operation – Tormach PCNC 1100
  - Laser Cutting – LaserCMM 2410 and Universal Laser PLS4.75
  - 3D Printing – MakerBot Replicator 2, Type A Beta Series, Type A Series 1
  - Common Shop Tools (bandsaw, drill press, panel saw, soldering iron, chop saw)
- CAD: SolidWorks, Autodesk Inventor Professional, Adobe Illustrator; CAM: HSMWorks
- Programming: HTML/CSS/JS, WordPress, node.js, Python, Javascript, Lua, GitHub/Git, MySQL
- Basic Electronics and Arduino Experience
- Google Docs/Microsoft Office, Video Editing

## EXPERIENCE

### CNC Mill

- Aug. 2014 – Present. Designing and building a 3-Axis CNC Milling Machine capable of cutting aluminum, plastic, foam, wood, and other soft materials. Includes selecting linear motion systems, designing and machining custom components, and assembling motor driver boards.

### FIRST Robotics

- Oct. 2014 – Present. **Build Captain.** Leading design of a mecanum drive train and anti-backdrive winch system for the 2015 FRC challenge. Teaching new members CAD and engineering skills, managing robot build timeline, and leading design discussions. Active member of CAD team.
- Aug. 2013 – October 2014. **Documentation Captain.** Primary designer of 2014 FIRST Robotics Competition robot. Assisted in writing award-winning business plan for the team.

### Programming and Web Development

- LegitLy – School project to learn front-end web development and node.js. [Code available.](#)
- [TEDxYouth@Hillsborough](#) – Adapted existing WordPress theme and managed site.

### TEDxYouth@Nueva

- Sept. 2013 – Present. **Lead Organizer.** Founded and led a TEDxYouth conference, now in its second year. Led team in speaker curation, logistics, and publicity. Attracted 100+ students from across the Bay Area in 2014, over 120 students in 2015 event.

### Advanced Entrepreneurship Course

- Sept. 2014 – Present. Advanced class that centers around developing a business and financial model, generating a minimum viable product, and testing product assumptions.

### Boy Scouts

Life Scout current working on Eagle Rank. 2014 Scout of the Year.

- Sept. 2013 – Jun. 2014. **Crew leader** on Philmont expedition, an 11-day, 75-mile backpacking trip in Northern New Mexico. Responsible for all aspects of trip planning and execution.
- Sept. 2013 – Jun. 2014. **Assistant Senior Patrol Leader.** Assisted Senior Patrol Leader in planning and running meetings, 2nd highest scout rank in troop of 120 members.

## EDUCATION

Sophomore at The Nueva School, San Mateo, CA.

## ACTIVITIES

Backpacking, environmental stewardship, track and cross-country, skiing, tinkering.