

## OBJECTIVE

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

## SKILLS

- Fabrication
  - CNC Mill Programming and Operation – Tormach PCNC 1100
  - Laser Cutting – LaserCAMM 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, GrabCAD Workbench, Adobe Illustrator
- CAM: HSMWorks
- Basic Electronics and Arduino Experience
- Programming: Front-End Web Development (HTML/CSS/JS), WordPress, node.js, Python, Javascript, Lua, GitHub and Git, MySQL, command line tools
- Project Management
- 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 elevator system for the 2015 FRC challenge, Recycle Rush. Teaching new members CAD and engineering skills, coordinating and managing robot building timeline, and leading design strategy discussions. Active member of CAD team.
- Aug. 2013 – October 2014. **Documentation Captain.** Primary designer of 2014 FIRST Robotics Competition robot. Assisted in writing business plan and fundraising proposals as well as design and building robot. Team won Entrepreneurship Award for its business plan and grant proposals.

### Programming and Web Development

- LegitLy – Humorous parody of bit.ly. School project in order to learn front-end web development and node.js. Code available [here](#).
- [TEDxYouth@Hillsborough](#) – Adapted existing WordPress theme to fit event and managed site from Sept. 2013 – May 2014.

### TEDxYouth@Nueva

- Sept. 2013 – Present. **Lead Organizer.** Founded and led a TEDxYouth conference, now in its second year. Extensive project management leading the team that invited speakers, coordinated logistics, and arranged publicity. Attracted 100+ students from across the Bay Area in 2014. Currently leading TEDxYouth@Nueva 2015.

### Nueva School Design Thinking Consultancy

- Oct. 2014 – Present. Part of a group that seeks to promote Design Thinking in other K-12 schools.

### **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.

- 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.