

OBJECTIVE

Seeking a summer internship to develop engineering skills in the context of design for social good.

SKILLS

- Design: Four years SolidWorks CAD modeling experience, rapid prototyping, Design Thinking
- Fabrication: CNC machining, laser cutting, 3D printing, basic woodworking
- Basic electronics and Arduino prototyping, Python
- Google Docs/Microsoft Office, basic video editing

EXPERIENCE & PROJECTS

Student Research Intern, Professor Manu Prakash Lab

- Jun. 2017 - Aug. 2017. Worked with PhD candidate George Korir to develop a low-cost, zero-power microfluidic diagnostic device that can perform malaria tests in low-resource settings. Focused on mechanical design and robustness of device, as well as packaging an electronic configuration.

Designing Sea Turtle Temperature Sensors for Nest Conservation

- Feb 2015 - Present. Working in a pair, designed prototypes of low-cost temperature sensing units intended to be deployed in sea turtle nests so as to better conserve and research the critically endangered Pacific Leatherback sea turtle.

FIRST Robotics

- Sept. 2015 - May 2017. **Co-Captain**. Student team leader and design lead. Teaching new members CAD and engineering skills, managing robot build timeline, and leading design discussions. Team received Quality Award for outstanding team and machine robustness in design and fabrication.
- Oct. 2014 - Sept. 2015. **Build Captain**. Led design of drive train and anti-backdrive winch system for the 2015 FRC challenge.

Building Electric Vehicles (School Elective)

- Sept. 2016 - May 2017. With a partner, designing and assembling a 1:10 electric track car with all-wheel drive and suspension system. Iterated design through 3D printing and laser cutting.

Studio Assistant/Engineering Intern, LUNAR

- June 2015 - Aug. 2015. Assisted in prototype brainstorming and ideation, as well as electronics and machine shop organization.

TEDxYouth@Nueva

- Sept. 2013 - June 2015. **Lead Organizer**. Founded and led a TEDxYouth conference. Led team in speaker curation, logistics, and publicity. Attracted 100+ students from across the Bay Area in 2014, over 120 students in 2015 event. Passed on leadership to others, now in its fourth year.

EDUCATION

Class of 2021, Brown University, Providence, Rhode Island

Founding Class of 2017, The Nueva Upper School, San Mateo, California

- National Merit Finalist
- Relevant Coursework: Design Engineering for Social Good, Physics: Mechanics, Inorganic Chemistry, Biology, Multivariable Calculus, Design Thinking and Entrepreneurship (Intro and Advanced), Engineering and Fabrication Workshop, Robotics

ACTIVITIES

Running, rock climbing, hiking, reading, cooking