

## EDUCATION: DARTMOUTH COLLEGE, HANOVER, NH

Bachelor of Engineering (BE) – Mechanical Concentration (June 2018)

Bachelor of Arts and Sciences (BA) – Engineering Sciences Major; Human-Centered Design Minor (June 2017)

SOLIDWORKS Mechanical Design Certification – Professional

## EXPERIENCE

### **Mechanical Engineer; Inboard Technology; Santa Cruz, Ca – July 2019 – Present**

- Worked through DFM (design for manufacturing) challenges including: root cause analysis, CAD modeling, drawing updates, bill of materials (and coding excel to auto fill custom BOMs tailored to each of our cross-functional teams)
- Dynamometer from scratch: designed, developed CAD, machined, & assembled custom 'dyno' to aid in-house motor analysis
- CNC test fixture to ensure quality control (QC) on the production line via standardized testing; CAD model & DFM

### **Fellow; Cook Engineering Design Center Fellowship; Thayer School of Engineering – Spring 2018 – Winter 2019**

- Outreach to 800+ companies, vetted and acquired ~60 industry-sponsored projects for BE candidates
- Efficiently coordinated between all stakeholders (CEDC director, Professors, Students, Sponsors)
- Increased donations to department by 20% (~\$20,000) and exceeded previous stats regarding quality of submitted projects

### **Engineering Capstone; Mobile Virtual Player; Hanover, NH – Fall 2017 - Winter 2018**

- Our team developed an Omni-directional bullet detection system, PCB, mechanical actuator, and iOS app for Mobile Virtual Player (MVP) to help replicate a more realistic and safer environment for special forces and military training.
- Awarded 'The Dartmouth Society of Engineers Prize' - for outstanding performance

### **Founder; NerdGirlHomes – 2010 – 2016**

- Built a 117s.f. Tiny Home and donated it to Community First! Village, a 27 acre homeless community in Austin, Texas.
- Invited to give TEDx talk
- Raised \$16K, cultivated 250+ donors, and garnered 110,000+ views on my website from people all over the world

## HONORS

- Featured speaker for Dartmouth Call to Lead Campaign: 3 billion dollar global fundraising campaign (2019)
- Cook Engineering Design Center (CEDC) Fellow (2018)
- The Dartmouth Society of Engineers Prize from Thayer School faculty (2018)
- National Winner: National Center for Women in Information Technology (NCWIT) (2012)
- Outstanding Philanthropic Youth of the Year Award (2012)
- Invited TEDx Speaker (2011)
- Applied Mechanics & Engineering Award US Navy / US Marine Corps (2010)

## LEADERSHIP

**NCAA Division I Athletics:** Women's Varsity Rugby Team (Ivy Champions 2015, 2016, 2017) | Women's Varsity Volleyball Team

**Management & Leadership Development Program (MLDP)** - Nelson A. Rockefeller Center for Public Policy

**Dartmouth "DRIVE" Leadership Program** - Dartmouth Peak Performance (DP2) led by a former Army Ranger

**Volunteer Athlete, Mentor and Coach** - Native Vision: 2015 - Present

## SKILLS

**Proficient in:** SOLIDWORKS (Static, Finite Element Analysis- FEA, Tolerance Stack Analysis, Bill of Materials - BOMs, Molding, Manufacturing), MATLAB, LaTeX, Photoshop, web-based programming (HTML, CSS, jQuery, JavaScript, PHP), Ableton Live Software

**Experience with:** Swift, Xcode, Python, C -programming language, BASIC, Illustrator, InDesign, Adobe Flash, Scratch

**Hands-on:** CNC Machinery (Laser Cutter, Proto-Trak Mill, Lathe, etc.), Injection Molding, 3-D Printing, woodworking equipment, Scanning Electron Microscope (SEM), Shop Bot, Instron, Oscilloscope, Foam Curing, Vacuum Bags

## RELEVANT CLASSES

*Engineering:* Computer-Aided Mech. Design, Structural Analysis, Swift / iOS Development, Industrial Ecology, Machine Engineering, Environmental Engineering, Solid Mechanics, Thermodynamics, Science of Materials, Stars and the Milky Way, Habitable Planets

*Human-Centered Design:* Product Design, Game Design, Design Thinking, Research Methods, Drawing, Architecture, Photography, Painting, Anthropology