

Eric P. Stern

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EDUCATION

University of California, Berkeley

Masters of Engineering, Mechanical Engineering

Expected – May 2020

- Emphasis: Controls of Robotics and Autonomous Systems

University of California, Santa Barbara

Bachelors of Science, Mechanical Engineering – Cumulative GPA 3.5

June 2016

- Relevant Coursework: Control System Design and Manufacturing & Materials

Senior Capstone Project: Waveguide Manufacturing Study

- Project manager for a team of four mechanical engineers tasked with a manufacturing study of airplane radar waveguides with Orbitals ATK. Researched and tested new additive manufacturing processes for producing waveguides. Validated results through various tests at UCSB's materials research lab.

University of California, San Diego Extension – Classes

Fall 2017 – Winter 2018

- RF Principles and Applications
- RF System Design for Wireless Communications

Palomar College – Class Programming Fundamentals II

Fall 2017

WORK EXPERIENCE

CalAmp

Carlsbad, CA

Associate Engineer, Hardware

Apr 2017– August 2019

- Design plastic injection housing for electronics in a large scale production environment utilizing DFM principles
- Use FEA analysis tools to optimize design and injection molding parameters
- Work with electrical and RF engineers to integrate PCBA design with mechanical design
- Generate parts, assemblies and drawings utilizing GD&T and ISO compliant revision control
- Oversee contract manufacturers for tooling design and fabrication
- Validate housings against Mil, IEC and ISO standards
- Assist with board layout and schematic design
- Verify RF and thermal performance
- EMI shield can and cable harness design

Sage Millimeter

Torrance, CA

Mechanical Engineer

Jan 2017– Feb 2017

- Designed microwave and millimeter wave components and sub-assemblies
- Created antennas, transducers, isolators, and switches along with other components to expand their product offerings
- Based on customer feedback, redesigned several products with smaller footprints while providing similar attenuation

Hologic Gen-Probe

San Diego, CA

Mechanical Engineering Intern

June 2015– Aug 2015

- Analyzed throughput on the Tomcat automated molecular testing instrument to increase the efficiency
- Developed process enhancements and validated improved workflows with mechanical, electrical, and software engineers, resulting in over 10% reduction in overall cycle time
- Produced 3D printed parts to determine feasibility of design changes allowing the machine to use competitors vials

Applied Silicone

Santa Paula, CA

Mechanical Engineering Intern

June 2014 - Sept 2014

- Designed and manufactured automated medical grade silicone processing machines
- Created a pneumatic removable fixture for a six axis robot to hold and power attachments for improved versatility
- Designed, analyzed and built a chemical fume hood with optimal airflow for less cost than those commercially available

University of California Santa Barbara

Santa Barbara, CA

Undergraduate Teaching Assistant

Mar 2014 – June 2016

- Served as a teaching assistant for ME10 – Engineering Graphics: Sketching, CAD & Conceptual Design
- Subject matter expert in Solidworks; taught fellow students and graded papers on GD&T and other design principles

ACTIVITIES, SKILLS & INDEPENDENT ENDEAVORS

- Experienced user of Solidworks, Labview, MoldFlow, Draftsight, Onshape, Pads, OrCAD, Omnify, Visio, Excel and Word
- Knowledgeable in Java, Matlab, C and Python languages
- Engineer in Training (EIT) Certified
- ASME Member
- Self taught welding and motor cycle repair; worked as vintage motorcycle mechanic
- Solo backpacked through 14+ countries