JONATHAN TAM, EIT

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EDUCATION

California Polytechnic State University, Pomona **June 2016**
B.S. with Cum Laude in Mechanical Engineering **GPA: 3.56**
Honors: Dean's List, Pi Tau Sigma Honor Society, Tau Beta Pi Honor Society

SKILLS

- Software: AutoCAD Inventor, SolidWorks, FEMAP, Nastran
- Programming: Matlab, Visual Basic, Arduino C, HTML, CSS
- Languages: Cantonese (Limited Working Proficiency), Mandarin (Elementary Proficiency)

WORK EXPERIENCE

Summer Research Assistant July 2014 – August 2014
Chinese University of Hong Kong

- Designed a three-axis linear stage to achieve nano-precision movements for microcontact printing of flexible electronic devices
- Developed a ball screw torque calculator using Visual Basic to cut down calculation time from 30 minutes to 1 minute

Design Engineer Intern July 2013 – August 2013
Delta Light – Asia (China)

- Created and edited engineering drawings for LED light fixtures in SolidWorks
- Supported in the optimization of designs for cost, manufacturability and serviceability
- Prevented damage to thousands of products by introducing packaging that evenly distributes loads
- Gained hands-on experience by creating a new concept for a light fixture

PROJECTS

Northrop Grumman Collaboration Project – Unmanned Underwater Vehicle
Projectile Team Lead October 2015 – June 2016

- Led a team of 3 in designing a subsystem which utilizes wireless communication to fire motorized projectiles at a target

Remote Electronics Unit (REU) Thermal Design Project January 2016 – March 2016

- Performed a thermal analysis of an airplane's REU box that is emitting 45W of heat throughout an altitude operating range of 0 meters to 12,000 meters
- Developed a systems of equations solver using Matlab to model the transient thermal system
- Identified a viable thermal design which will manage system temperatures to within 70°C
- Presented design reviews and a technical design report

Human Powered Vehicle Challenge November 2013 – September 2015
Vice President

- Designed and manufactured a recumbent bicycle which placed 8th in the endurance race and 9th in the men's sprint out of 27 competitors as a rookie team