

TIMOTHY LIN

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PROFESSIONAL EXPERIENCE

Sierra Lobo

Pasadena, CA

Mechanical Engineer

Feb 2020 - Present

- Designing mechanical components to support HVM3 project for JPL which includes spacecraft bipods, base plate, telescope mirrors and baffles, optical and thermal mounts
- Developed ground support equipment for testing and alignment of optical mirrors
- Produced detailed optical and mechanical piece part drawings
- Used surfaces from ZEMAX prescription to design and integrate optical mirrors in assembly
- Updating spectrometer and telescope assembly procedure based on design modifications
- Utilizing NX and Teamcenter PLM to design components
- Drawings created in accordance to GD&T ASME Y14.5 meeting JPL specifications

Crow Industries

Los Angeles, CA

Mechanical Engineer Internship

May 2018 to Aug 2018

- Designed and rendered spacecraft landers and zero-g cubesat in SolidWorks used in proposals
- Zero-G cubesat assembly designed using widely available modular 80/20 T slot aluminum framing system for ease of manufacturing
- Proposed design allowed zero-G cubesat to be successfully manufactured within timeline to test in zero-G flight
- Assisted team members preparing necessary documentations for proposals for NASA and ESA

PureGear

Irwindale, CA

Mechanical Engineer

Jan 2015 to Jun 2017

- Utilized Pro/Engineer to modify components and tooling fixtures during design phases
- Created 3D printed prototype mock ups of mobile and audio accessories for product development
- Communicated with vendor to solve tooling issues while meeting timeline goals
- Assisted team members in producing documentation to present to clients in Microsoft Office

TECHNICAL SKILLS

Design: NX, Teamcenter PLM, Solidworks, Pro/Engineer, FEA, 3D printing

Programming: Matlab, Python, Arduino, HTML

Technology: Microsoft Office, Linux, ROS

Foreign Language: Conversational Mandarin

PROJECTS

Programmable LED Lava Lamp

- Using the Raspberry Pi and FadeCandy controller to create a programmable led lamp

IGVC – Intelligent Ground Vehicle Competition

- Created publisher and subscriber python nodes enabling devices to transmit and receive data in ROS

EDUCATION

University of Central Florida

Orlando, FL

Master of Science in Mechanical Engineering

Aug 2017 to Apr 2019

University of California, Irvine

Irvine, CA

Bachelor of Science in Mechanical Engineering

Sept 2009 to Jun 2014