Michael Li

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EDUCATION

University of California, Davis **Graduation Date: June 2019**

Bachelor of Science, Mechanical Engineering

TECHNICAL SKILLS

- Manufacturing: Machining (Lathes, Mills), 3D Printing, Power Tools, TIG Welding, Lean Manufacturing
- CAD/CAM: SolidWorks, AutoCAD, AutoDesk, ESPRIT, Navisworks, ANSYS
- Programming: MATLAB, Python, Microsoft Office Suite, Arduino

PROFESSIONAL EXPERIENCE

Mechanical Design Engineer, *Honeywell,* Roseville, CA **January 2021 – Present**

- Perform a variety of mechanical engineering work involving the planning, configuring and execution of conveyor system projects for large distribution centers.

Mechanical Project Engineer, *BEUMER Group,* San Francisco, CA **June 2019 – Present**

- Preparing 3D models and drawings for the manufacturing of the new material handling equipment and conveyor systems for the modernization of SFO's Terminal 3.
- Designed conveyor systems layout and specific components using 3D AutoCAD and Navisworks.
- Provided onsite construction support by conducting field surveys as required.
- Reviewed and released parts to be manufactured and assisted procurement department with orders and supplier selection.
- Oversee operation and maintenance for Terminal 1's baggage handling system.

Chassis Team Member, *UC Davis Hyperloop,* Davis, CA **June 2018 – June 2019**

- Advanced to Top 20 in the 2019 Hyperloop Competition.
- Fabricating vehicle chassis for SpaceX's annual Hyperloop Competition.
- Utilized SolidWorks to design frame for vehicle chassis.
- Designed a nozzle support to help distribute the force from the thrusters to the chassis.
- Working with all sub-teams to ensure successful integration of subsystems onto chassis.

Manufacturing Engineer Intern, *JunoPacific (Medical Device),* Soquel, CA **June – September 2018**

- Designed, prototyped, and tested fixtures used to improve assembly line processes.
- Utilized SolidWorks to create and document drawings for 3D printing and machining.
- Developed proficiency in machine shop tools to produce high precision parts.
- Observed cleanroom assembly line processes to look for improvements and analyzed rejected parts to identify reasons for nonconformity.
- Troubleshooted cleanroom equipment (ultrasonic welders, ATCs, and air guns).
- Created and improved documentation including operator instructions, reject data sheets and the Maintenance Connection Database.

ENGINEERING PROJECTS

Tricycle for Hemiplegic Individual, *Senior Design Project*, Davis, CA **January 2019 – June 2019**

- Used SolidWorks to design a recumbent trike specifically to be used by a hemiplegic individual.
- Worked in a team of 5 to meet specifications (rear-wheel steer, one handle and etc.) from sponsor.

VTOL Aircraft, *Engineering Graphics in Design Final Project*, Davis, CA **December 2017**

- Used SolidWorks to design torque links, axle, gear strut, wheel, and tire of a VTOL aircraft for my final class project.
- Worked with a team of 5 people to assemble the VTOL aircraft.

Video Processing Player, *Engineering Problem Solving MATLAB Project,* Davis, CA **March 2017**

- Coded and designed GUI for a MATLAB video player. Able to search for videos from computer with working buttons for play/pause, stop, forward, rewind. Implemented real-time scroll bar, RGB histogram and color filters.

LEADERSHIP & ACTIVITIES

Theta Tau Professional Engineering Fraternity **June 2017 – June 2019**