Tommy Nguyen

Los Angeles, CA • tommyvnguyen0@gmail.com • tommyvnguyen.com

EDUCATION

University of California, Los Angeles | Mechanical Engineering, B.S. Sep. 2018 - Jun. 2022

- GPA: 4.0/4.0
- Relevant Coursework: Advanced Strength of Materials, Mechanisms and Mechanical Systems, Thermodynamics, Transport Phenomena, Manufacturing Processes, Statics, Dynamics

EXPERIENCE

Mechanical Engineer Intern Jun. 2021 - Sep. 2021

Nordson Asymtek| Carlsbad, CA

- Designed, prototyped, and tested a pneumatic powered arm which continuously delivers and removes a wafer from a dispensing machine.
- Created sheet metal parts and drawings in SolidWorks, and used FEA to analyze their stresses.
- Used LabView and DAQ modules to control solenoid valves and set up automatic cycling.

Customer Service Representative Oct. 2018 - Jun. 2019

ASUCLA Ackerman Union | Los Angeles, CA

- Rotated between different shops and restaurants, taking customer orders and preparing tea drinks quickly and accurately.
- Communicated efficiently with coworkers to solve any arising issues.

PROJECTS

Sliding Table Design Fall 2020

- Designed a table in SolidWorks which slides horizontally with minimal vertical or angular change using the theory of mechanisms and machines.
- Used MATLAB to find optimal link lengths and analyze movement of the table.

3D Printed Macropad Summer 2020

- Designed, 3D printed, and hand wired a macropad (small keyboard).
- Worked with Arduino IDE to program the macropad.

Epidemic Modeling Spring 2020

- Created a deterministic extended-SEIR model and a stochastic SEIR-model for an epidemic using MATLAB.
- Analyzed the effects of lockdowns and preventative measures based on start time and strength.

Solid Motor Rocket Fall 2019

- Worked with a small team to design, manufacture, and launch a rocket which successfully carried an egg to apogee and returned undamaged.
- 3D printed a detachable nose cone and shoulder designed using Solidworks.

ACTIVITIES AND LEADERSHIP

UCLA Rocket Project, Airframe Engineer Sep. 2019 - Present

- Researched mechanical design for the nose cone and created it in SolidWorks.
- Developed a new fiberglass layup method which halved the production time.

SKILLS

SolidWorks | MATLAB | C++ | 3D Printing |Microsoft Word, Excel, Powerpoint