

Tommy Nguyen

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Los Angeles, CA

Education

University of California Los Angeles, Mechanical Engineering, B.S.

September 2018 - Present (Expected June 2022)

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

Work Experience

Nordson Asymtek, Mechanical Engineer Intern

June 2021 - September 2021

- 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.

ASUCLA Ackerman Union, Customer Service Representative

October 2018 - June 2019

- 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 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.

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 & Leadership

UCLA Rocket Project, Airframe Engineer

September 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