

Ming Lin

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OBJECTIVE

Student at Stevens Institute of Technology 23' pursuing a co-op position in the field of mechanical engineering to explore careers in the field.

EDUCATION

Stevens Institute of Technology, Hoboken, NJ

May 2023

Bachelor of Engineering: Mechanical Engineering

GPA: 3.4

Awards: NJIC Sportsmanship Scholarship, Edwin A Scholarship

Course works: Engineering Design I-II, Engineering Graphics, Intro to Programming, Mechanics, Biology and Biotechnology, Chemistry, Calculus I-II, Writing and Communication, Intro to Entrepreneurship, Engineering Experiences

SKILLS

3D Printing, SolidWorks, MATLAB, LabView, C++, Python, G-code, Microsoft Offices, CAD Design, Windows 10, Mac OS, CPR Certified, First Aid Certified, Fluent in Mandarin

PROJECTS

3D Printing, Raspberry Pi, Arduino

Dec 2018 - Jan 2019

Crealty Ender-3 3D Printer Modifications

- Utilized **3D printing** and **CAD** to 3D print parts and upgrade overall mechanical functionality.
- Used an **Arduino** Uno bootloader capabilities, to upgrade the firmware to open-source Marlin-based software to decrease the fire hazard as well as overall modularity.
- Used a **Raspberry Pi** 3B to improve Wi-Fi based capabilities, gaining the ability to control as well as monitor printer functions using a server-based GUI called Octoprint in real-time.

Engineering Design Term Projects

Sep 2018 - Dec 2018

- Used an Arduino Wemos Chips, Ultrasonic Sensors, DC Motors, and multiple machining tools to create an autonomous robot with the ability to dodge obstacles and navigate a course hitting four targets and returning to original position.

EXPERIENCE

Zimmer Biomet

May 2019 - Current

Quality Engineering Co-op, Fair Lawn, NJ

- Responsible for assuring products conform to establish requirements and standards through inspections and appropriate internal audits
- Contributed to the continuous improvement of the facility by formulating procedures, specifications, and standards for products and process. As well as developing and implementing **CAPA** plans.

Stevens Institute of Technology, Department of Mechanical Engineering

August 2019 - Current

Teaching Assistant, Hoboken, NJ

- Taught the foundations of 3D modelling and spatial skills by utilizing **Solidworks** tools, assemblies, and drawings.
- Educated students on how **CAD drawing** are to be structured in such a way it can be utilized to express creative design ideas.

Stevens Institute of Technology, Department of Mechanical Engineering

Jan 2019 - May 2019

Research Assistant, Hoboken, NJ

- Created a structured light 3D scanner that constructs 3D images from processing data that is taken from the camera and projector.
- Utilized **MATLAB** toolboxes such as **image processing** and **computer vision** to process data and calibrate the camera and project to detect real-world dimensions.

ACTIVITIES

Co-founder of Stevens Solar Car Mechanical Team, Captain of Secaucus High School Cross Country and Track and Field Team, United States Naval Academy Summer Seminar, Kappa Sigma Fraternity Brother

US Citizen | Currently Available

