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 this 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
"Creality" 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.

SolidWorks and CAD Design   Sep 2018 - Dec 2018
Engine Block Design

- Modeled an 8-cylinder V configuration combustion engine block.
- Simulated the movement and functionality of the engine using **SolidWorks** rotary motor animation tool.
- Presented the design using the SolidWorks assembly and drawing tools.

Engineering Design Term Projects   Sep 2018 - Dec 2018

- Used an Arduino Webmos 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 4 targets and returning to original position.

EXPERIENCE

Stevens Institute of Technology   Jan 2019 - Current
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.

Town of Secaucus   June 2017 - Current
Lifeguard and Swim Coach, Secaucus, NJ

- Kept watch over swimmers to ensure a fast response when distress situations arose.

ACTIVITIES

Solar Car Mechanical Team, Student Government Association Senator, Student-Faculty Alliance Committee Member, Captain of Secaucus High School Cross Country and Track and Field Team, Officer of Secaucus High School National Honor Society, United States Naval Academy Summer Seminar

US Citizen | Available May 2019