**Ming Lin**

1050 Stonewall Lane, Secaucus NJ 07094 | 201-417-2039 | minglianglin50@gmail.com

**OBJEC**TIVE

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 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 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.

**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**