**­­LINDA LI**

ll568@cornell.edu

Albany, NY

**Education**

**Cornell University**

**Master of Engineering: Product Design**  Anticipated Completion: Dec 2020

**Bachelor of Science: Mechanical Engineering**  Anticipated Completion: May 2020 | GPA: 3.15

* **Relevant Courses:** Dynamics, System Dynamics, Thermodynamics, Heat Transfer, Mechanics of Materials, Statics and Mechanics of Solids, Fluid Mechanics, Mechatronics, Mechanical Synthesis, Product Design, Oscillatory Waves and Quantum Physics
* **Activities and Societies:** Cornell ChemE Car, CU Solar Boat, Cornell American Society of Mechanical Engineers, Phi Sigma Sigma, Symphony Orchestra

**Skills**

* CAD (Solidworks/Inventor/Fusion 360)
* Machining (Mill/Lathe), Laser Cutting, 3D Printing, and Soldering
* Python, MATLAB, Arduino
* Windows, Word, Excel, PowerPoint, and Adobe Photoshop
* Adult and Child CPR/AED Certified
* EHS Lab Safety Certified

**Professional Experience**

**Energy Products Manufacturing Engineer** | **Tesla**  May 2019 – Aug 2019

* Designed pneumatics and auxiliary features for an automated production robotic end of arm tooling (EOAT).
* Saved over $5M in annual production costs by characterizing machinery, analyzing battery cell layout, designing mechanical assemblies, and optimizing station layout.
* Improved ergonomics and efficiency by redesigning fixtures, stations, and workflow.

**Mechanical Process Engineering Intern** | **Premier Paint Roller Co LLC** Jul 2018 – Aug 2018

* Improved manufacturing processes and efficiency by studying product requirements, researching, designing, modifying, testing, and conferring with equipment vendors.
* Designed machines and tools used to increase productivity.
* Kept equipment operational by following manufacturer's instructions and established procedures.

**Research Student Intern** | **NYS Department of Health** Jun 2015 – Aug 2015

* Collected and analyzed human brainwave data using the BCI wet cap and WearableSensing dry cap at the Brain Computing Interface (BCI) lab at Wadsworth Center.
* Developed and tested models of alternate designs to assess data accuracy, efficiency, new applications, and possible modifications.

**CS Student Intern** | **Rensselaer Polytechnic Institute** Jun 2014 – Aug 2014

* Analyzed Wikipedia and Twitter keywords at the Natural Language Processing and Data Mining computer science lab at Rensselaer Polytechnic Institute (RPI).
* Researched, designed, and implemented applications for information identification, extraction, and analysis.

**Project Experience**

**Mechanical Team Captain** | **Cornell ChemE Car**  Feb 2017 – Present

* Led a subteam of four in designing, manufacturing, and troubleshooting chassis and reaction containments.
* Collaborated with multiple subteams to solve mechanical problems, becoming an expert with a single power team’s project.
* Developed innovative chassi­­­­s designs, batteries, and reaction containments using 3D printing technology, laser cutting, CAD, and machining. Problem solve mechanical design and construction inefficiencies and flaws.

**Drivetrain and Steering Subteam Member** | **Cornell Solar Boat (CUSB)** Sept 2018 – Present

* Designed the transmission and housing with a focus on weight reduction, serviceability, manufacturability, and optimization for our vehicle specifications for a solar-powered speedboat.
* Designed and manufactured the mounting and steering mechanisms for a solar-powered speedboat.