Manny Lazalde

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Education

University of California, Berkeley **May 2019**
Bachelor of Science, Mechanical Engineering, 3.7 GPA
Member of UC Berkeley's Mechanical Engineering Honor Society – Pi Tau Sigma
Relevant Coursework: *Visualization for Design, Three Dimensional Modeling for Design, Data Structures for Computer Science (Java), Introduction to Computer Programming for Scientists and Engineers (MATLAB)*

Experience

CalSol - UC Berkeley Solar Vehicle Team
Mechanical Subteam **September 2015 - Present**

- Redesigned brake caliper mounts using SolidWorks and tested with SolidWorks FEA
- Machined caliper mounts out of 7075 aluminum in UC Berkeley Machine Shop
- Cut and attached nomex honeycomb carbon fiber panels to topshell of car
- Participated in American Solar Challenge, a 2000 mile race from Ohio to South Dakota

Second Sight Medical Products
Clinical Data Specialist **July 2015 - August 2015**

- Analyzed and entered data through Open Clinica entering CRF's, AE's, ED's, and POR's
- Performed Retinal Data verification, including OCT and Fundus
- Created report for Marketing analyzing cost of patient study
- Initiated and filed patient records

Second Sight Medical Products
Operations Intern **July 2014 - August 2014**

- Collected and analyzed electrical information of machines in cleanroom to prevent overload
- Presented power distribution matrix report to Director of Manufacturing
- Created cleanroom compatible clock backings using SolidWorks and a CNC machine

Projects

Wind Turbine Design Project **November 2016**

- Designed blades and base of a wind turbine in SolidWorks, and optimized base stiffness with SolidWorks FEA
- Performed tests and validated results of FEA on the 3D printed wind turbine

Raspberry Pi IoT Car **June 2016 – August 2016**

- Created program with Node.js and Socket.io which enables control of RC car through internet browser with Raspberry Pi
- Fully modeled RC car in SolidWorks

Skills and Qualifications

Technical skills:

- SolidWorks, MATLAB, AutoCad, and Fusion 360
- Java, JavaScript, Python, HTML, and CSS
- Adobe Photoshop and Lightroom
- Microsoft Office, Excel, and PowerPoint

Other:

- Proficient in Spanish
- UC Berkeley Machine Shop Experience
- 3D Printing
- Laser Cutting

Volunteer Experience

UC Berkeley Newman Hall **November 2015 - Present**
Retreat Leader and Eucharistic Minister

- Planned and led a fall retreat for over 50 college students spanning three days resulting in 94% satisfaction rate, as judged by written evaluations
- Serve Communion to over 100 parishioners weekly