Donald Le

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Education

University of California, Berkeley **May 2023**
Mechanical Engineering, B.S. ***GPA:*** *3.4*

San Diego Miramar College **May 2021**
GPA: *3.96*

Technical Skills

CAD: Solidworks, Solidworks PDM, Inventor, Fusion 360, Finite Element Analysis(Ansys and Solidworks), Drawings, GD&T

Manufacturing: Carbon Fiber, CNC, FDM/SLA, Mill, Lathe, Waterjet, Laser cutting, Sheet Metal

CS/EE: Python, Matlab, Arduino, Microcontrollers, Sensors, Servos/Motors

Experience

Berkeley Formula Racing (FSAE) **Sep 2021-Present**

Brakes and Driver Interface Design Engineer

-Designed and manufactured throttle pedal and return mechanism reducing weight by 50% from the previous year
-Performed finite element analysis and material subtraction on the brake pedal, throttle pedal, and pedal tray
-Created engineering drawings with the necessary GD&T for all designed components
-Designed and manufactured carbon fiber pedal cups and their corresponding layup molds
-Conducted thermal analysis on brake rotors (Ansys)
-Conducted cost analysis for brakes and driver interface related assemblies

Projects

Mechanium wheel car

-Designed and 3-D printed chassis with battery, microcontroller, and servo motor mounts
-Utilized an esp32 microcontroller programmed in python to control servo motors and sensors
-Sent sensor data through wifi and plotted real-time acceleration, velocity, and, position

Vaccine Dosimeter

-Collaborated with a small team to design and manufacture a device to speed up vaccine distribution
-Created engineering drawings for all components and manufactured parts using waterjet, mill, lathe, and 3-D printing
-Presented working prototype raced conventional filling methods at a design showcase

Dementia Reminder Watch

-Designed a wrist-mounted device to help people with dementia remember daily tasks
-Designed with a simple user interface keeping the consumer demographic in mind
-Created a 3-D printed prototype with a small LCD screen, LEDs, and buttons controlled by an esp32 programmed in Arduino

Relevant Coursework

Matlab Programming
Properties of Materials
Dynamics
Fluid Mechanics
Intro to robotics
Robotic Locomotion

Honors/Awards

Dean's List: San Diego Miramar College 2020-2021
PLTW Scholar Award: Completed the engineering pathway at a PLTW Distinguished School