Adit Roychowdhury

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EDUCATION

University of California, Berkeley	**May 2023**
BSc Mechanical Engineering and (intended) BSc Electrical Engineering/Computer Science	**GPA: 3.871**

Relevant Courses: Multivariable Calculus, Linear Algebra and Differential Equations, 3-Dimensional Modelling for Design, Thermodynamics and E&M, 2D Visualization for Design

SKILLS

Technical: Fusion360, AutoCAD, SolidWorks, MATLAB, Robotics, Arduino Programming, Android App development, 3D Printing/Prototyping, Python

WORK EXPERIENCE

Product Design Associate

PractiSc Labs

June 2020 – August 2020

Remote

- Led the integration of the design and electronic components for an upcoming educational product.
- Used 3D CAD to visualize the product and created a project report for investors
- Taught Arduino programming and circuits to the other interns, prototyped final circuit
- Co-authored educational material for an application-based math book.

Engineering and Manufacturing Intern

A* Advanced Remanufacturing and Technology Centre (ARTC)

July 2018 – August 2018

Singapore

- Learnt and used JavaScript, Node.js and Linux virtual machines to allow mobile control and visualisation of a manufacturing robot to improve efficiency
- Helped administrate and update Windows and Linux virtual machines, and performed routine checks for errors
- Assisted lab technicians to prepare and analyse metal 3D prints in the metallurgy lab.

PROJECTS AND EXTRACURRICULARS

Frame Team Member

Cal Human Powered Vehicle

September 2020 - Present

Berkeley, CA

- Researching and designing an ergonomic seat for the vehicle using Fusion360 and SolidWorks
- Working with the chassis team to design adjustable seat attachment mechanism

Team Member

Cal RoboBears

September 2020 - Present

Berkeley, CA

- Building a RC battle robot for the Cal Combat Robotics Competition using SolidWorks CAD and FEA tools
- Modeled robot components and created chassis assemblies in SolidWorks

Window Cleaning Robot

High School Research Project

March 2018 – December 2018

Singapore

- Used 3D scanning, Blender and Fusion360 to design and manufacture a 3D printed window cleaning robot
- Presented and explained the functions and benefits of this robot at local science fair