Adit Roychowdhury

Berkeley, CA · (510) 988 6586
adit@berkeley.edu · LinkedIn · Project Portfolio

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

Secondary Education: Tanglin Trust School, Singapore — **2015 - 2019**
A Levels: A* A* A* B
GCSEs: 10 A*s, 1 A

Primary Education: London, Dubai, and India — **Pre-2015**

SKILLS

Technical: Fusion360, AutoCAD, SolidWorks, MATLAB, Robotics, Workshop tools, Arduino Programming, 3D Printing/Prototyping, Python

WORK EXPERIENCE

Product Design Associate — **June 2020 – August 2020**
PractiSc Labs — *India (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 — **July 2018 – August 2018**
A Advanced Remanufacturing and Technology Centre (ARTC)* — *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 — **September 2020 - Present**
Cal Human Powered Vehicle — *Berkeley, CA*

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

Team Lead — **September 2020 - Present**
Cal RoboBears — *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 — **March 2018 – December 2018**
High School Research Project — *Singapore*

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