

Abha Bhole

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OBJECTIVE: Combining academic knowledge and hands-on project experience to contribute to innovative and sustainable engineering solutions.

EDUCATION

Cornell University, College of Engineering, Ithaca, NY, May 2027 BS, Mechanical Engineering GPA: 3.33

Relevant Courses: Intro to Python for Engineers, Statics and Mechanics of Materials, Thermodynamics, Electromagnetism, Differential Equations

A-levels—2023: Notting Hill and Ealing High School, London, UK. Maths (A), Further Maths (B), Physics (B), English Language (A)

RELEVANT EXPERIENCE

Cornell University Sustainable Design, Cornell University, Sustainable Mobility Project Team
(Sept 2023-Present)

- Work in a team of 30 with a professor and other graduate and undergraduate students to design a sustainable bus shelter for Ithaca's bus network, using an interdisciplinary approach involving Architecture, Mechanical Engineering, Civil Engineering, Electrical Engineering and Systems Engineering.
- Design a structural module that can be connected to other identical modules to form a large structure, taking into account material and machining process to maximize sustainability.
- Connect with prospective users and stakeholders, such as Ithaca's public transport network, and experts in the aforementioned fields to improve on design.
- Compiled a 128-page comprehensive report on all aspects of the project up to date with team members.

InvestIN Young Engineer Experience, InvestIN
(Summer 2022)

- Attended a 10 day networking event with Engineers and college students, and getting an insight into Engineering through field trips and workshops.
- Workshops included looking at the shape of plane wings and exploring how this allowed flight, exploring structural integrity in bridge design, brainstorming new devices to aid in healthcare and exploring their plausibility, inspecting the parts of an electric car, building and programming arduino robots to do an obstacle course, and designing flood defenses for London to account for climate change.
- Field trips included a trip to an airfield to study gliders' plane wings, a trip to a car collection to study car engines and electric cars, and a trip to see the Thames Barrier in London to study flood defenses.

Engineering Development Trust (EDT) Industrial Cadets Gold Project, Done in penultimate year of High School
(Sept 2021-June 2022)

- Completed a year-long project designed to explore engineering applications in real life, especially in Industry.
- Worked in a team of 4 pupils, advised by systems engineers from Ultra Electronics, to develop a wearable CO2 sensor to be used to check for hazardous leaks in extreme temperature testing of electronics.
- Frequently connected with project mentors from Ultra Electronics to evaluate current stage of design.
- Compiled a comprehensive report with team members and presented the project to a panel of industry assessors.

NOTABLE ACHIEVEMENTS
Arkwright Engineering Scholarship
(Sept 2021-July 2023)

- National merit-based Engineering award given annually to about 200 A-Level students in the UK.