

Abha Bhole

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EDUCATION:

Cornell University, College of Engineering, Ithaca, NY Expected May 2027 BS, Mechanical Engineering GPA: 3.44

Relevant Courses: Mechanics of Materials, Thermodynamics, Electromagnetism, Mechanical Design, System Dynamics, Introductory Fluid Mechanics

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

EXPERIENCE:

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

- Work in a team with a professor and other graduate and undergraduate students to design a sustainable bus shelter for Ithaca's bus network.
- Design a structural module that can be connected to other identical modules to form a large structure, making for ease of manufacture and assembly, taking into account material and machining process to maximize sustainability.
- Use an interdisciplinary approach involving Architecture, Mechanical Engineering, Civil Engineering, Electrical Engineering and Systems Engineering to ensure project meets technical and user requirements.
- Connect with prospective users and stakeholders, as well as 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.

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.
- Compiled a comprehensive report and presented the project to a panel of industry assessors with team members.

SKILLS:

CAD (Fusion 360), MATLAB, Excel