

# 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 CO<sub>2</sub> 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**