

Arnav Shah

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Education

The Heathland School

- A-Levels (Predicted): Mathematics(A*); Further Mathematics(A*); Physics(A)

Sep 2024 – Aug 2026

The Tiffin School

- GCSEs: Grades 9-5 in 8 subjects (including an 8 in Maths and 6 in English Language)

Sep 2019 – Aug 2024

Experiences

DHL

Apr 2025

Work Experience

- Spent a week with engineers in the warehouse, learning about technical designs, operation of sorting machines, conveyor systems, and scanning technologies.
- Observed live maintenance and troubleshooting of machines, developing diagnostic and engineering problem-solving under time pressure.
- Analysed how mechanical and computational systems interact, ensuring efficiency, accuracy, and reliability in logistics operations.
- Explored the use of mathematical algorithms in revenue forecasting and client logistics planning.

University of York

Aug 2025

Building A Supercomputer Research Placement

- During a two-week placement, collaborated with a team to build a supercomputer using Raspberry Pis, configuring them into a parallel processing cluster.
- Developed and delivered an outreach programme for KS3 students, introducing them to computing and engineering concepts in an engaging format.
- Gained technical skills in CAD, basic Python programming, and video editing.

British Airways

Jul 2025

Work Experience

- Analysed financial data to evaluate efficiency and proposed improvement strategies, building quantitative reasoning and decision-making skills.
- Designed and pitched a new product helping passengers keep valuable items safe, applying engineering skills to eliminate problems in this industry.
- Explored engineering behind aircrafts, learnt about ground systems, maintenance processes, and the role of mechanical systems in aviation safety.
- Gained first-hand insight into daily operations of British Airways and developed a better understanding of the aviation industry and its various roles.

Extracurriculars

STEM Smart / Residential (Engineering Focus)

Nov 2024 – Sep 2025

- Participated in weekly mentoring and problem-solving sessions, strengthening mathematical and scientific reasoning.
- Attended a 4-day residential at Cambridge University, engaging in advanced academic lectures and engineering workshops.
- Applied engineering principles through hands-on activities and projects.
- Collaborating with peers and academics, gaining insights into research and university learning environments.

Computer Specialist

May 2022 – Apr 2025

- Built and sold custom PCs on an e-commerce platform, tailoring systems to clients' needs.
- Assembled and tested computer hardware, ensuring the best performance, stability, and compatibility.
- Optimised and upgraded systems, improving speed, cooling, and efficiency.
- Provided technical support and after-sales service, enhancing customer satisfaction and retention.

Private Tutoring

Sep 2024 – Feb 2025

- Mentored students aged 8-16 years.
- Used a wide range of teaching styles and instructional approaches to adapt to individual needs and learning styles.
- Helped students achieve grades higher than they expected.

Physics Mentoring

Dec 2025 – Dec 2026

- Participating in weekly sessions tackling advanced physics problems at my sixth form school.
- Exploring topics within Physics and Mathematics beyond the curriculum.
- Collaborate with peers to discuss problems, reasoning, and solutions.

Prefect/Class Representative

Sep 2024 – Jun 2026

- Appointed as a school prefect, demonstrating leadership, responsibility, and commitment to the school community.
- Assisting at after-school events such as Year 11 subject evening and parents' evening.
- Represented classmates by communicating student views to staff, participating in interviews, and encouraging student participation in events.

Skills and Interests

- **Projects:** Built a Wind Turbine, Built a Wooden PC Case
- **Languages:** English – fluent; Gujarati – fluent
- **Skills:** Experience with CAD, video editing, basic Python programming, problem solving, teamwork
- **Virtual Work Experiences:** BP Future in Energy, GE Aerospace, JP Morgan Investment Banking
- **Awards/Certificates:** Senior Maths Challenge (Silver), Senior Physics Challenge (Bronze), Intermediate Maths Challenge (Gold), Jack Petchey Speak Out Challenge, Bronze DofE, Nuclear Physics Masterclass (University of York), Isaac Physics Mentoring Scheme
- **Interests:** Going to the gym, Cycling, Playing Cricket for a club winning many games, Video Editing