Vaikay Saravanamuthu

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Education:

MEng in Mechanical Engineering, University of Warwick (2023 – 2027)

Expected final degree – First Class Honours

- Relevant modules include Engineering design and Systems modelling, simulation & computation
- Coded a portfolio website using HTML and CSS and an RPG game using Python as a member of Coding Society with no prior knowledge of coding
- Member of Engineering, Women in Engineering & Science (WWES), F1 and Motorsport Society

Membership:

- IMechE (Institution of Mechanical Engineers) – Affiliate Member

Dartford Grammar School for Girls, GCSE & A-Level (2021 - 2023)

A-Level Grades – Mathematics (A), Further Mathematics (A), Physics (A)*

- Worked together with the physics department and other prefects during school events as a physics prefect to promote physics & STEM to the younger students and their families
- Lead and planned meetings every fortnight about recent engineering news, mathematical problems and discussing TED-talks as leader and founder of Engineering Society
- Lead weekly science experiments as the leader of STEM Club during lunchtimes including rubber band-powered cars using scrap material from Woodworking Club
- Responsible in mentoring 3 GCSE students in physics and mathematics leading them to go from a Grade 4 to Grade 7-9 in both subjects in a span of 6 months
- Organised a project to rehabilitate wildlife in the local area using recycled materials as a member of Woodworking Club and completed it under a strict 4-week deadline

- Created the interface of an interactive application which could be used by parents to teach children animal sounds and what animals they belong to in Coding Club

Experience:

The Young Engineer Programme – InvestIn (2022)

- Took part in the breakdown of an internal combustion engine with an industry expert from Rolls-Royce while learning about the use of pistons in engines to generate energy for automotive vehicles
- Used simulation software to study the impact of leading edges, angle of attacks and general structure of aerofoils on their lift and drag
- Tested 3D-printed aerofoils designs

Atkins Work Experience – Springpod (2021)

- Learned about the environmental impact of wind farm safety checks and developed an idea for more efficient safety checks that would lower carbon emissions and decrease the amount of waste products
- Researched potential materials and production processes that could be used in their new projects to help them reach their net zero goal

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Technical Skills & Interests:

- MATLAB, HTML, CSS & Python
- CAD software including Fusion360 & SketchUp
- Confident in Microsoft Word, Microsoft PowerPoint & Microsoft Excel
- Language learning – Fluent in French and Tamil and is currently learning German and Mandarin independently

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Scholarships & Awards:

- Women in Engineering Scholarship (January 2024) – 1 in 5 in cohort
- Reading List Foundation Scholarship (May 2023) – Selected by the sixth form team to give to the top student from all bursary holders in the cohort
- BPhO Senior Physics Challenge (January 2022) – Bronze Award
- UKMT Senior Mathematical Challenge (January 2021) – Silver Award
- Top Student Award (2018-2023) – Dartford Grammar School for Girls Mathematics, Physics, Design Technology, Business and French from Year 9 to Year 13