

AVISH SOOD

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EDUCATION

BEng Aerospace Engineering (Industrial), Queen Mary University of London

London, UK | Sept 2024 – Jun 2028

Key modules: Engineering Design | Experimental Design & Practice | Computational & Mathematical Modelling | Exploring Engineering | Skills for Engineers

Greenford High School – London, UK

A-Levels: Mathematics (A), Physics (B), Geography (B)

GCSEs: 9 GCSEs (grades 8-5), including Mathematics (8)

RELEVANT WORK EXPERIENCE

Engineering Technician, University of Cambridge

Cambridge, UK | Aug 2024

- Investigated airfoil performance and stall behavior using laboratory aerodynamics testing and pressure management techniques.
- Conducted experimental analysis of lift and airflow characteristics, interpreting aerodynamic data to evaluate flight performance.
- Applied engineering problem-solving methods to investigate key flight mechanics principles and laboratory test results.

Sustainability Management, Octopus Energy

London, UK | Feb 2023

- Analyzed energy efficiency strategies for electric vehicle infrastructure and renewable energy integration.
- Conducted geographical and data analysis to identify potential locations for renewable energy projects.
- Collaborated within a team to develop sustainability proposals aligned with net-zero energy targets

OTHER WORK EXPERIENCE

Mathematics Tutor, EasyA

London, UK | Aug 2022 – Sept 2023

- Delivered one-to-one tutoring in mathematics, helping students strengthen analytical and problem-solving skills.
- Explained complex mathematical concepts clearly, improving student understanding and exam performance.
- Developed structured lesson plans tailored to different learning levels and abilities.

ENGINEERING PROJECTS AND LEADERSHIP

Aerodynamics Team Lead, QM Aerospace Society

London, UK | Nov 2025 – Present

- Designed and evaluated UAV aerodynamic components using XFLR5, SolidWorks, and STAR-CCM+ to optimise lift, drag, and stability.
- Performed CFD simulations to analyse pressure distribution, velocity fields, and flow separation across multiple aerofoil and wing geometries.
- LED team sessions to standardise aerodynamic workflows including aerofoil parameter extraction, CAD modelling, and CFD pre-processing.
- Contributed to iterative design reviews to ensure prototypes met aerodynamic performance and project constraints.

Ursa Rocketry Team, QMSEDS – UKSEDS National Rocketry Championship

London, UK | Nov 2025 – Present

- Designed and analysed G-class mid-power rocket fins in compliance with UKSEDS structural and safety requirements.
- Conducted material trade-off studies (balsa, plywood, composites, 3D-printed polymers) to optimise strength-to-weight ratio and manufacturability.
- Performed aerodynamic and structural load calculations including axial and lateral loads, safety factors, and tip-deflection limits for Max-Q conditions.
- Produced manufacturable CAD designs and test plans using student-accessible fabrication methods including laser cutting, 3D printing, and epoxy bonding.

Undergraduate Research Assistant, Queen Mary Centre for Undergraduate Research

London, UK | Nov 2024 – Sep 2025

- Conducting CFD-based research to optimise propeller performance for hybrid aircraft configurations.
- Developing CAD geometries and aerodynamic simulations using ANSYS and SolidWorks.
- Collaborating with supervisors and research teams to analyse performance data and meet project milestones.

Associate Member, Queen Mary Formula Student

London, UK | Sep 2024 – Present

- Supporting CAD design tasks for student-built go-kart components using SolidWorks.
- Contributing to collaborative engineering design discussions and vehicle development

TECHNICAL SKILLS

Software

MATLAB | Python | SolidWorks | ANSYS | STAR-CCM+ | XFLR5 | Microsoft Excel

Engineering

CFD Simulation | Aerodynamic Analysis | Structural Load Analysis | CAD Modeling | Engineering Data Analysis

Manufacturing & Fabrication

3D Printing | Laser Cutting | Epoxy Bonding | Prototype Fabrication

AWARDS AND CERTIFICATIONS

UKMT Senior Mathematics Challenge – Bronze Award

CAA Drone Pilot Licence – A1/A3 Open Subcategory

Professional Events

Royal Aeronautical Society Careers in Aerospace Event

STEM SMART (University of Cambridge Initiative)

Cummins Engineering Visit – Daventry

MBDA Engineering Visit – Stevenage

LANGUAGES

English-Fluent | Italian-Fluent | Hindi-Native | Punjabi-Native | Urdu-Native

INTERESTS

Aerospace Engineering, rocketry, UAV design, fitness training, and international travel

REFEREES

References are available upon request.