Lingges Shaswat

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PROFILE

Highly motivated and results-oriented aerospace engineering graduate from the University of Bristol with a strong foundation in aerodynamics, structural analysis, flight mechanics, and control systems. Successfully applied these principles in the design and analysis of diverse aerospace systems, including civil airliners, drones, and satellites. Seeking a challenging entry-level position within a dynamic organization where I can contribute to innovative projects and further develop my engineering expertise.

EDUCATION

University of Bristol January 2025 – May 2025
MEng Aerospace Engineering Bristol, UK

Composites for Lightweight Structures
Developed a strong understanding of the principles and analysis methods for designing lightweight composite structures, with a focus on applications in aerospace, energy, and automotive industries.

Space Systems
Studied orbital mechanics, spacecraft subsystems (propulsion, communication, power), and mission design for space exploration.

Wind Energy Systems
Developed a comprehensive understanding of wind energy systems, including their operation, design considerations, and environmental impact.

University of Bristol September 2020 – December 2023
BEng Aerospace Engineering Bristol, UK

Aerodynamics
In-depth study of fluid flow principles, including compressible flow, boundary layer theory, and computational fluid dynamics (CFD). Developed skills in aerodynamic modelling and analysis of aircraft components**.**

Structures and Materials
Explored aircraft structural design principles, materials selection, failure modes and analysis techniques, including finite element analysis (FEA) and composite materials.

Flight Dynamics and Control
Analysed aircraft motion, stability, and control systems. Gained proficiency in modelling and simulating aircraft flight behaviour and designing control laws**.**

University of Bristol September 2019 – June 2020
International Foundation Programme – STEM Bristol, UK
Overall Grade – 87%

International School of Choueifat February 2011 – July 2019
IGCSE – 6A* Abu Dhabi, UAE
High School Diploma – 97%

WORK EXPERIENCE

Leicester City Council – Project Management Office August 2025 – Present
Junior Business Analyst Leicester, UK

- Delivered analytical reports and evidence briefs that informed strategic decisions made by councillors and MPs regarding social care funding, service optimisation and educational outcomes.
- Conducted investigations on departmental performance issues using both quantitative data (service demand trends, cost modelling) and qualitative insights (stakeholder interviews, thematic and gap analyses)
- Produced data visualizations and presented findings to contribute to key initiatives which are currently adopted with the department as it aligns with the vision and mission.

Allianz General Insurance Company (M) Berhad July 2024 – December 2024
Renewal Sales Executive Kuala Lumpur, Malaysia

- Successfully renewed high-value motor insurance policies worth RM500k each for premium clients, demonstrating excellent communication, interpersonal, and negotiation skills.
- Generated over RM100k in total sales with a total portfolio valuation of over RM10 million, exceeding given sales targets.
- Built strong relationships with customers through personalized service and follow-up leading to a 15% increase in customer retention.

Sunway University June 2023 – September 2023
Junior Tutor Subang, Malaysia

- Provided academic support to business students in introductory mathematics and calculus enhancing their understanding of core concepts.
- Developed analytical and problem-solving skills through engaging case studies and real-world business scenarios.
- Guided students to achieve an average grade increase of 10% in Introductory Mathematics and Calculus.

PROJECTS

Airbus – Civil Airliner Design September 2023 – December 2023
Chief Engineer and Project Manager

- Led the design team of 7 professionals to create a novel medium-range aircraft designed to fill a market gap by reducing operating costs by 15% compared to competitors.
- Designed for high utilisation rates by minimising turnaround time to nearly 30 mins and enhancing operational reliability by 10%.
- Personally contributed to the design of critical aircraft systems, including the fuel system and landing gear, with a focus on future family extensions.
- Successfully managed the project timeline, budget, and team dynamics, ensuring timely delivery of the final design report.

FYP – Mavic 3 Hydrogen Quadcopter September 2022 – April 2023
Individual Final Year Project

- Developed an in-house mathematical model in MATLAB to assess the performance and endurance of a search and rescue quadcopter using both lithium polymer batteries and hydrogen fuel cells.
- Identified the critical mass point at 1.32 kg where energy system efficiency shifts from batteries to hydrogen fuel cells, optimizing the selection process for power sources in drone applications.
- Conducted sensitivity analyses to determine the impact of mass on quadcopter flight time, achieving peak endurance with the energy system mass constituting two-thirds of the total quadcopter mass.
- Researched and evaluated lightweight hydrogen storage solutions and fuel cell technologies, contributing to the design of sustainable and efficient UAVs for search and rescue operations.

Aerospace Systems Analysis September 2022 – April 2023
Lead Engineer

- Developed a strong understanding of aerospace design methodologies for airplanes and helicopters, including systems engineering principles and the application of various aerodynamic and structural analysis tools.
- Gained proficiency in converting engineering needs into specific requirements and evaluating alternative design solutions under conflicting constraints.
- Enhanced technical writing and reporting skills through the preparation of design documentation and reports.
- Developed effective teamwork and project management skills through this project.

UAV Design, Manufacturing and Test September 2021 – May 2022
Chief Aerodynamics Engineer

- Led a team of 6 engineers to design the lightest and most aerodynamic wing and tailplane using analysis tools.
- Analysed aerofoils for ease of manufacturing and aerodynamics by wind tunnel testing.
- Supervised the manufacturing process, ensuring adherence to design specifications and quality control standards.
- Conducted wind tunnel tests and analysed wind tunnel test data to generate reports documenting key findings and performance characteristics.

VOLUNTEERING

Bristol Student Union September 2023 – December 2023
Language Café Barista Bristol, UK

- Developed leadership skills by organizing and coordinating cafe events, fostering an inclusive and supportive environment for language learners.
- Enhanced communication and interpersonal skills while interacting with individuals from diverse cultural backgrounds.
- Successfully fostered a supportive and encouraging learning environment, resulting in increased confidence and motivation among participants to continue their language learning journey.

SKILLS and INTERESTS

Technical: Autodesk Inventor, AutoCAD, Fusion 360, Nastran, Patran, Abaqus, CATIA, MATLAB, Simulink,

GMAT, Python, C.
Languages: English, Malay, Tamil, Arabic, French.
Interests: Karate, Football, Basketball, Bowling, Swimming, Golf, Formula 1, Classical Indian Music.