Injamul Haque

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Profile

An ambitious MEng Aeronautics and Astronautics student at the University of Southampton with hands-on experience in aerospace design and analysis. Proficient in CFD (ANSYS Fluent, Star-CCM), FEA (ANSYS APDL, ANSYS Mechanical), and CAD (SolidWorks), with additional skills in programming (Python, MATLAB, C++). Motivated to contribute technical expertise, problem solving, and teamwork skills to aerospace engineering challenges in both academic and professional environments.

Skills

Computer aided design (CAD): Solidworks

Computational fluid dynamics (CFD): Ansys Fluent, Star-CCM

Finite element analysis (FEA): Ansys APDL, Ansys Mechanical

Programming languages: Python, MATLAB, C++

Other Techical skills: Excel, LaTeX, HTML, CSS, Word, Powerpoint

Soft Skills: Teamwork, Time management, Adaptability, Problem Solving, Effective communication

Education

MEng in Aeronautics and Astronautics, University of Southampton — Sept 2022 – Jun 2026
- On track for a 2:1 Honours Degree

A-levels, Havant & South Downs College — Sept 2020 – Jun 2022
- Mathematics: A*, Further Mathematics: A, Physics: A

Projects

Formula 1 Testing group — Sep 2025 - Jun 2026

Effect of ply fiber orientation on the static and dynamic behavior of a composite swept-back wing — Sep 2024 - Jun 2025

- Designed a 3D CAD model of a composite swept-back wing and investigated how changing the fiber orientation on composite wing skins can effect the stresses, deformation and natrual frequency responce of the wing.
- Findings: tailoring of the fibers showed a 15.92% reduction in stress and a 9.29% reduction in deformation when compared to full Aluminium 7075 T6 alloy.
- Tools used: Solidworks, Ansys Fluent, Ansys APDL, Ansys Mechanical

Multirotor Group project — Jan 2024 - Jun 2024
- **Role:** Structural analyst, team Member
- Contributed to designing a quadcopter, which consists of a flight recorder and a camera gimbal system, used for inspection purposes
- Applied FEA in Ansys Mechanical to ensure structural integrity under loading conditions, while supporting team members with project objectives such as soldering components and assembling the overall structure.
- Delegated tasks to team members using Gantt charts in Excel and organised group meetings to review project

goals and milestones.

- **Tools:** Excel, Ansys Mechanical

Responsive profolio website Jul 2025 - Current

- Delivered a clean, user-friendly interface with intuitive navigation designed for both desktop and mobile use. Link:
- **Tools:** HTML, CSS, javascript

Awards & Achievements

UKMT Senior Maths Challenge: 2021
- Recognised participant

GCSE Mathematics award: 2019
- For Acedemic excellence, through initial prediction from a 2 to predicting an 8 in Mathematics

Languages

English (Fluent), Bengali (Conversational)