

RHITHIKA SRINIVASAN

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OBJECTIVE

I bring experience in V systems model, integration, testing, engineering product life cycle, aerospace design, and space systems. I am seeking challenging opportunities to enhance my skills, contribute to innovative projects, and accelerate my professional growth in aerospace systems engineering.

WORK EXPERIENCE

RAY MARINE /ALTEN Ltd

Fareham, UK

Test Engineer

2023-Present

- Verification: Performed planning and document verification strategies for around 15 projects including system, smoke, regression, unit, integration, and field trial tests.
- Delivered test plans, test cycle cases, ensuring precise commitment to testing processes using JIRA.
- Collaboration: Worked closely with customers in base, cross-functional teams, and external partners throughout the development process. Based on impressive performance, the client's trust was enhanced leading to expansion from 2 to 16-member team.
- Proficiently adhered to scrum meetings, excelling in agile & kanban project environments.
- Captured, defined, and evaluated requirements to ensure clarity and feasibility.
- Spearheaded the test FMEA meetings and follow ups for major feature implementation.

VRCO Ltd

Derby, UK

Aerospace (Avionics) Engineer Intern

2021-2022

- Developed a live warehouse prototype of XP4 site using IoT (Blynk IFTTT) and voice recognition technology.
- Integrated FlightAware, Raspberry Pi, and Arduino UNO for avionics cockpit dashboard.
- Completed certification in level 1 soldering (surface mount).
- 3D printed jet engine models.
- Managed projects personally using Kanban method.

PROJECT EXPERIENCE

Final Year Project- The University of Sheffield

Sheffield, UK

Effects of Surface Roughness on the Aerodynamics of Wing

2022-2023

- Designed and manufactured rectangular wing and endplates using SOLIDWORKS and Fusion 360.
- Assembled wing, endplates, sensors, and load cell in the wind tunnel lab.
- Executed experimental wind tunnel test procedures at 6 different angles of attack and Reynolds number combined to analyze aerodynamic performance across 3 surface roughness levels.
- Utilized LabVIEW for data collection and MATLAB to extrapolate lift and drag coefficients.
- Employed XFOIL for 2D data & pressure statistics to compare performance results.
- Compared the findings to PhD research and 2D outputs for reporting.

Aircraft Design Group Project- The University of Sheffield

Sheffield, UK

Design Engineer

2022-2023

- Teamed up with 5 fellow engineers to create innovative design solutions.
- Took responsibility for full-scale subsonic aircraft design of wings, fuselage, engines, and empennage using CAD & design calculations.
- Analyzed range, coefficient of lift and drag, thrust, and aerodynamics performance parameters based on calculations and historic data.

Can Sat Project- UKLSL/ MACC/ The University of Sheffield

Scotland, UK

Lead Engineer

2020-2021

- Aided in directing mechanical, avionics, power, descent/ parachute, and data sub- systems.
- As a team of 5 engineers from different discipline, we successfully launched a can sized satellite up to 600 meters (Launch sponsor- Raptor Aerospace).
- Successfully retrieved the satellite while following the competition regulations.
- Interacted with the professionals from space industry and attended webinars to learn and network.

SKILLS

- **Proficient** – Fusion360, Open Rocket, XFOIL, Tinker CAD, LabView, JIRA & Confluence.
- **Familiar** – Solid Works, MATLAB/ Simulink, Python.
- **Soft skills** – quick learner, effective communication, attention to detail, team player, self-reflective, reliable, time management.

EDUCATION

The University of Sheffield

Sheffield, UK

BEng Aerospace Engineering (Year in Industry)

2019-2023

- **Qualification- Class 1 Honors**
- **Modules:** Space Systems Engineering, Aerodynamics Design, Aircraft and Aerospace Design, Aero- propulsion, Managing Engineering Projects and Teams, Introduction to Systems and Software, Aircraft Dynamics and Control, Mathematics, Aero- fluids.

SOCIETY & COMMUNITY INITIATIVES

Sheffield, UK

Students Union- The University of Sheffield

Ambassador Roles

2019-2023

Inspired prospective students by sharing personal STEM experiences.

- Global Campus Ambassador; Science & Engineering Champion; International Engineering Ambassador (IEA).

Sheffield Artificial Intelligence Society (SAIS)- The University of Sheffield

Inclusions Officer

2020-2021

- Maintained team integrity by ensuring inclusivity of students as a part of SAIS community and society.

LANGUAGES

- Trilingual/ languages of **Full proficiency:** English, Tamil, Hindi & **Elementary proficiency:** Arabic, Sanskrit.

VOLUNTEERING & SPORTS

Volunteering

- Participated and contributed by conducting educational experiments on **Science Alive and STEM outreach initiatives** organized by the university for students from grade 2-10, nurturing STEM awareness.

Sports

- Routine- Cycling, swimming, yoga, and Gym.
- Leisure- chess, rock climbing, tennis, running, and badminton.

*References and detailed reports of the projects available on request.

*Website- [Click here](#)