Aditya Keshri

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ABOUT MYSELF

Master's student in Hybrid Electric Propulsion Technology with a strong interest in electric propulsion and sustainable aviation. Skilled in analysis tools with practical experience from internships. Eager to apply knowledge to real-world aerospace challenges.

EDUCATION AND TRAINING

Bachelor's in Aeronautical Engineering with Machine Learning

APJ Abdul Kalam Technological University [01/06/2019 – 01/10/2023]

City: trivandrum | **Country:** India | **Website:** www.ktu.edu.in

Master's in Hybrid Electric propulsion Technology

Brandenburg University of Technology Cottbus-Senftenberg [01/10/2024 – Current]

City: Cottbus | **Country:** Germany | **Website:** https://www.b-tu.de/en/

CONFERENCES & SEMINARS

DLR Institute for Low-Carbon Industrial Processes and Brandenburg Technical University, Cottbus

Seminar on - Thermal Management System Cooling Duct

• Conducted experiment on a Cooling duct installed HEX setup to evaluate Heat Transfer Coefficients at Varying Coolant Velocities on a Compact Ducted Louvered Plate Fin Hex .
• Used static taps, Pitot tube and Temperature sensors across collecting data for theoretical evaluation and experimental validation .
• Analyzed dimensional and non-dimensional forms .
• Summarized findings technical presentation with key insights.

Brandenburg Technical University, Cottbus

Type Certification Plan for Fictional Electric Li-ion Battery Aircraft

• Developed a certification framework under CS-25 for electric aircraft using Li-ion battery propulsion, addressing airworthiness, safety, and compliance challenges.
• Adapted regulatory standards and testing protocols to support safe integration of Li-ion battery systems in commercial aviation.

PROJECTS

[01/01/2023 – 01/06/2023]

Drag Estimation For Space Debris

Gained expertise in Fluid Dynamics , satellite design, orbital trajectory analysis, assessing orbital perturbations using regression methods including that of space debris in LEO estimating Hard Body Radius and Ballistic Coefficient for Collision risk mitigation of space objects

Softwares Used : MATLAB , GMAT , ANSYS Fluent

SKILLS

CFD / MATLAB / ANSYS / Machine Learning / Python

WORK EXPERIENCE

Indian Space Research Organization – Trivandrum, India

City: Trivandrum | **Country:** India

Intern

[01/2023 – 06/2023]

-Create software for estimating characteristics such as BC, RCS of Space Debris in LEO using HPOP Propagator .

- Used regression models to estimate Drag parameters of Debris in Low Earth Orbit.

LANGUAGE SKILLS

Other language(s): English

German

LISTENING B1 **READING** B1 **WRITING** A2

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user