Shreyas Satheesh

Aerospace Engineer

CONTACT ME

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(Willing to Relocate)

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AEROSPACE SKILLS

- CAD - SOLIDWORKS || Advanced
- CFD - ANSYS FLUENT || Intermediate
- Material Selection - GRANTA || Intermediate
- Edupack / Selector || Intermediate
- Wind Tunnel Operation || Novice

COMPUTER SKILLS

- Microsoft Suite || Advanced
- Data Management || Intermediate
- C++ || Advanced
- JavaScript || Novice
- Swift || Intermediate
- MATLAB & Simulink || Advanced
- Data Mining and Analytics || Advanced

PERSONAL SUMMARY

A talented and dynamic engineer with a sound understanding of Mechanical and Aerospace engineering. Excellent working knowledge in CFD Simulations and MATLAB, including the ability to interpret and analyze data to develop and design models.

Inspiring individual with outstanding communication and interpersonal skills and ability to think laterally to provide solutions and decision-making in the diagnosis and resolution of problems.

Looking for an Aerospace Engineer opportunity with a company in which my past training and experiences can be used to help the business advance and meet goals and to further hone my skills.

WORK EXPERIENCE

NHS - VIRTUAL DATA SUPPORT

Sitel UK || June 2021 - Current

Responsibilities

- Data hub that consolidates internal and external patient data which can be used to improve care. Integrate data into the hub to better coordinate care using digital tools.

Skills Learned:

- Leadership and Adaptability
- Data Mining and Analytics
- Time Management and Organisation

FORMULA STUDENT

SURE - Swansea University || December 2018 - January 2021

Responsibilities:

- Run extensive CFD and Wind Tunnel Tests using ANSYS FLUENT and ATE Aerotech Wind Tunnel to test Drag and Flow Separation
- Analyse and develop rear wing based on performance targets and vehicle strategy

Skills Learned:

- Teamwork and delegation
- Critical analysis to propose innovative and successful solutions which meet regulations
- Ability to maintain high levels of accuracy with attention to detail.
- Ability to work under pressure and meet deadlines

ACHIEVEMENTS

NFLC (Cranfield University) - Flying Laboratory Course - April 2021

IFLO (International French Olympiad) - City 2nd - 2016

IMO (International Math Olympiad) - Rank 1 in Level 1 - Gold - 2015

UNSW (University of New South Wales) - Science - High Distinction - 2015

HOBBIES AND INTERESTS

- Photography
- Cricket
- Travelling
- Music
- Robotics

REFERENCES

Dr. Sondipon Adhikari
Research Project Supervisor
Glasgow University
Sondipon.Adhikari@glasgow.ac.uk

Dr. Nick Croft
Head of Aerospace Engineering
Swansea University
t.n.croft@swansea.ac.uk

Dr Marinos Manolesos
Reader in Aerospace Engineering
City, University of London
marinos.manolesos@city.ac.uk

ACADEMIC BACKGROUND

SWANSEA UNIVERSITY PRIFYSGOL ABERTAWE, SWANSEA, UK

BEng (Hons.) Aerospace Engineering
Class of 2021

NATIONAL PUBLIC SCHOOL, CHENNAI, INDIA

AISSCE: Physics, Chemistry, Mathematics, Computer Science and English
Class of 2018

AISSE: Science, Mathematics, English and French
Class of 2016

RESEARCH PAPER

TRIBOELECTRIC NANOGENERATORS IN AEROSPACE APPLICATIONS

BEng - Final Year Thesis:

- Triboelectric Nano generators can be used to harvest energy from Aero-structures.
- They have a high energy generation/weight ratio, making it ideal for the aerospace industry.
- The usability of this technology would range from self sustainable sensors (temperature, pressure, etc) to assisting auxiliary power units for efficiency and safety.
- It is a form of clean energy.
- This technology can be used in addition to other sources of energy to further improve the capabilities and range of space vehicles and potentially reduce the cost.

OTHER PROJECTS

PLANT AUTO WATERING SYSTEM (PAWS)

High School Final Year Project || 2017 - 2018

- PAWS is based on the Arduino platform.
- It was designed to optimise the level of water for plants.
- The software monitors the water level in the soil and ensures a certain level is maintained. The algorithm tends to optimise overtime based on the water intake of the plant.
- The algorithm was also designed to consider the local weather information.