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E.Akshaya Sai Chandar

SKILLS

SolidWorks, Google Analytics, Hypermesh, LaTeX, Technical Documentation, Operations Research, Aerodynamics, C#, Agile, Avionics, Aircraft Propulsion, Aircraft Structures, MySQL, Digital Marketing, Product Design, ANSYS, Systems Engineering, Arduino, Supply Chain Management, Aerospace Engineering, Modelbased systems engineering, JavaScript, MATLAB, LabVIEW, Convolutional Neural Networks, ANSYS Workbench, Python3, PATRAN, Data Science, Machine Learning, Lean Six Sigma, Nastran, C Programming, Embedded C, Critical Thinking, UML, STK, Computational Fluid Dynamics (CFD), AutoCAD, CATIA, Market Research, Project Management

EXPERIENCE

CAD Design Intern, Cratandraqx Aerospace – Bangalore

Jun 2021 – Present

- Am working on designing several UAVs for defence, enterprise, surveillance and commercial sectors.

Aerodynamics Intern, Indian Institute of Science – Bangalore

Mar 2021 – Present

- Carrying my minor project on confined UAVs wherein we are trying to understand the design implications of a novel nested shroud design.

Student Propulsion Intern, BEML – Bangalore

Aug 2020 – Dec 2020

- Worked on researching hydrogen fuel cells and other technical aspects of UAV Ghatka.

Avionics Project Associate, THE VIMANA – Bangalore

Aug 2020 – Mar 2021

- Worked on the PCDH (Payload Control And Data Handling) of a High Altitude Balloon. Designed a HAB (High Altitude Balloon) in collaboration with IIA (Indian Institute Of Astrophysics) and for it to participate in GSBC (Global Space Balloon Challenge) 2022.

EDUCATION

RV College of Engineering, Bangalore – *B.E., Aerospace Engineering*

August 2018 – Present

Current CGPA – 8.14

Army Public School , Bangalore – *Physics, Chemistry, Maths, Biology*

April 2016 – April 2018

CBSE, CLASS X- 9.8 CGPA, CLASS XII- 86.3%

Projects

1. Design and Development Static Test Pad for Solid Propellant Rocket Motor
2. Development and Design of High Powered Rocket
3. Conceptual Design of Two Stage Sounding Rocket
4. Design and Analysis of NACA 2412
5. Vimana Balloon Satellite-1
6. Satellite to study radiation patterns of Van Allen Belt
7. Design and Development of a Martian UAV to carry out logistics, imaging and reconnaissance mission on MARS to aid astronauts
8. CAD Design, Assembly, Technical Specifications of Commercial Drones, Amphibious Drones, Surveillance Drones
9. Structural Analysis Of an Agricultural UAV
10. Computational Study of a Novel Nested Shroud Design For UAV propulsion

Competitions

- semi-finalist in both the categories of rocketry and satellites, Space Science Challenge, Team Lead
- Top 5, International Planetary Aerial Systems, Team Lead
- 3rd, Aerospace Design Challenge, Team Lead

Publications

- Structural Investigation of Agricultural UAV
International Journal of Scientific Research & Engineering Trends
| Publication date: Apr 30, 2021
- Internet of Things (IoT) in Healthcare Market to witness high growth in the upcoming future
The Vimana | Publication date: Mar 3, 2021
- Will New Battery Absolve Elon?
The Vimana | Publication date: Nov 18, 2020