

PRASATH S

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4th year B.E. Aeronautics student at Rajalakshmi Engineering College with excellent academic record and keen interest and practical exposure in the field of Aviation especially in Aerodynamics, Design, CFD and Structural Analysis.

Education

B.E. Aeronautical Engineering REC, CGPA – 9.23	2018-22
12 th (Senior Secondary Examination) CBSE Board, 85%	2018
10 th (Secondary Examination) CBSE Board, CGPA – 9.8	2016

Technical Skills

- Design and Modelling Software – Catia, SolidWorks, Fusion 360 , AutoCAD
- Simulation Software – Ansys, MatLab
- Animation Software – Blender
- Programming Languages – C, C++,Python
- Database Management System – MySQL
- Web Technologies – HTML, CSS, JavaScript
- Hardware Skills

Internships

UAV Design intern, Vymanik Aerospace Technologies Pvt. Ltd.	Jun-Jul 2021
Designed a Electric Powered Surveillance Glider as per the requirements given by the company.	
Drone Development intern, Barola Technologies Ltd.	Nov-Dec 2019
Worked on the Drone development and integrating it with Gesture control and Image processing.	

Academic Projects

AutoCAD Design Mini-Project

- Design of an ancient weapon known as Hidden Blade based on a sketch by Leonardo da Vinci

Catia Design Mini-Project

- Design of a ppm device known as Arc reactor from Ironman movie.
- Design of a Spacecraft known as Endurance from Interstellar movie.

Apps Designed

- Windows Applications using Microsoft Visual Basic for Torsion Test and Stress analysis of a beam element , Factor Of Safety Calculator, Natural Convection in a cylindrical tube and Rocket Propulsion.
- Determination of Nodal Temperature in 2D Heat Flow using Liebermann Method with MS Excel.
- Aircraft Performance Curves Plotter – Windows Application using MATLAB.

Cryptocurrency As part of **Future project 2020** conducted by Rajalakshmi Engineering College, developed a web application along with a Mobile client for cryptocurrency using blockchain technology Using Flask, Python.

Events and Achievements

▪ Secured AIR 7 in AEROTHON-2021 Design Competition conducted by SAEINDIA	June 2021
▪ Discovered 3 Asteroids by participating in the IASC – supported by NASA	Mar 2021
▪ Crazy CADD design Competition – Kumaraguru Institutions	3rd Apr 2021
▪ Treasure Trail Competition – Kumaraguru Institutions	4th Apr 2021
▪ National Level Online Quiz on “AEROSPACE TECHNOLOGY” – J.J.CET, Trichy	13th Mar 2021
▪ Hosted OPEN HOUSE 2020, representing the Department of Aeronautical Engineering, REC	Jan 2020
▪ 1st Place in Range and Endurance criteria of Glider Flying Competition at REC, Chennai	31st Aug 2019
▪ National Level Online Quiz on “Aerodynamic E-Quiz” – CAHC, Melvisharam	27 Jul 2020
▪ Application of Python - an online contest – Texas Instruments University Program	13th Jun 2019
▪ Python Programming - an online contest – Texas Instruments University Program	21st Nov 2018

Activities Based on Own Interest

- My Contributions to the Design community can be seen here [GrabCAD Link](#) , [Autodesk Gallery](#)
- Worked with Soil Moisture sensor, Gas Sensor, Thermocouples, Bluetooth and Wi-Fi using Arduino
- Active member of UAV and SEDS club of REC, Chennai.

Trainings & Workshops

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| ▪ Completed the course of understanding of C++ – SoloLearn | 20 th Apr 2021 |
| ▪ Completed the Yi Yuva Work-A-Shila Workshop on Excel Essentials | 19 th -20 th Mar 2021 |
| ▪ Completed the course MATLAB Masterclass – Pantech Solutions | Sep 2020 |
| ▪ Completion of Game development using Pygame – GUVI | Jul 2020 |
| ▪ Completion of Step into Robotic Process Automation – GUVI | Jul 2020 |
| ▪ Online Workshop on Introduction to OpenFOAM CFD development – SKILL-LYNC | 28 th Jul 2020 |
| ▪ Online Workshop on CFD Processing using ANSA – SKILL-LYNC | 19 th Jun 2020 |
| ▪ Online Workshop on Knowledge-Based Engineering – SKILL-LYNC | 18 th Jul 2020 |
| ▪ Online Workshop on Design Automation & CAD Customization – SKILL-LYNC | 27 th Jun 2020 |
| ▪ Bootcamp - Introduction to Java Script – Spotle.ai | May 2020 |
| ▪ Coding Bootcamp - Text Processing With Python – Spotle.ai | May 2020 |
| ▪ Certificate Masterclass - Python for Data Science – Spotle.ai | May 2020 |
| ▪ Masterclass - Flowcharts for Professional Programming – Spotle.ai | May 2020 |
| ▪ Certificate Bootcamp - Introduction To Database And SQL – Spotle.ai | May 2020 |
| ▪ Certificate Bootcamp - Introduction To HTML – Spotle.ai | May 2020 |
| ▪ Masterclass - Introduction To Product Management – Spotle.ai | May 2020 |
| ▪ Technical Workshop on “Electric Vehicle Engineering” – Haritha TechLogix | 8 th - 10 th Jan 2020 |
| ▪ MATLAB Onramp Training – MathWorks | 29 th Dec 2019 |
| ▪ RC Aircraft Design Workshop – SRiSHTi at PSG, Coimbatore | 28 th - 29 th Sep 2019 |
| ▪ Technobyte Workshop (2 days) on Ethical Hacking and Cyber Security at IITM | 14 th - 15 th Sep 2019 |
| ▪ Hands on Training Program using TI Robotics Kit(MSP 432) at REC, Chennai | 1 st Aug 2019 |
| ▪ Let’s CADD’19 workshop on AutoCAD at REC, Chennai | 3 rd – 5 th Jun 2019 |

Extra-curricular Activities

- Secured First Class in **PARICHAYA** Examination conducted by DBHPS, Madras in January 2011

National and International Olympiads

- Secured City **Rank 3** in National Cyber Olympiad(**NCO**) during the year 2017
- **Top 10** City Ranks in National Science Olympiad(**NSO**), International English Olympiad(**IEO**) and International Mathematics Olympiad(**IMO**) during the year 2016 and 2017
- Excelled in National Genius Search Examination (**NGSE**) in year 2015
- Participated Green Olympiad in the year 2015
- Secured ‘**A**’ grade in Global Mathematical Talent Probe in year 2014 and 2015

Hobbies include Gaming, Streaming, Archery, listening to music and watching web series.