RAMKIRAN LEPAKSHI

Organized, resourceful and eager to take on new challenges to improve my skills. Fast learner and experienced in MATLAB, Python, Solidworks with good problem-solving skills.

🎓 Education

MSc Space Science & Technology - University College Dublin UCD **2022**
- Set to graduate in 2023.

Satellite Subsystems, Space Mission Design, Data Science with Python, ML with Python.

B.Tech Aerospace Engineering – Alliance College of Engineering and Design(ACED) **2021**
- Graduated with 3.4/4.0 CGPA | Alliance University, India.

Spacecraft Navigation and Guidance, Spacecraft Stability and Control, Spacecraft Design, Control Engineering.

Intermediate/12th - Sri Chaitanya Junior College **2017**
- Passed with 87.7% | Andhra Pradesh State Board, India.

📊 Projects

1. Building a Small Satellite to launch with a Weather Balloon – Group of 3 **2022**

Built the software to read, store and transmit Telemetry and Payload Data from a small satellite. Roles – Systems Engineer and Software Lead - As Part of Coursework

2. Designed a Space Telescope Mission to Study Active Galactic Nuclei - UCD **2022**

Designed a mission, including a Telescope, Orbital Design, Observing strategy in a team of 7 people from 3 universities. as a team lead - As Part of Coursework

3. Construction of Quadcopters – Group Project **2020**

Built 3 quadcopters for a competition(cancelled due to covid-19) based on CC3D Evo, APM 2.8 & KK 2.1.5 flight controllers.

4. Constructed a working scaled-down model of Ramjet - ACED **2019**

Constructed using stainless steel that fed on Petrol and used centrifugal air blower to simulate the air intake. - As Part of Coursework

🏢 Internship

1. CFD Analysis of Multi-element Airfoil MDA 30P30N at Fluidyn Consultancy **2020**

Modelling and Analysis to calculate C_l, C_d, Pressure, Velocities, and Temperature over a three element Aerofoil MDA 30P30N using Fluidyn's Multiphysics CFD tool.

2. Intern at Manna Drones in Flight Sciences Team **2023**

Part of the Flight Sciences Team. Creating Data Visualisations in Tableau using the flight logs of Ardupilot, stored in a PostgreSQL.

📜 Final Year Project

1. Interactive Learning Platform for Orbital Mechanics Using Python - MOPy **2021**

Designed a learning tool with Python, Qt Designer, SQLite named Mechanics of Orbit using Python - MOPy. It was designed to for anyone to learn various concepts of Orbital Mechanics from theory to visualization such as different types of Orbits, Orbital Transfer, Sphere of Influence and among others.

👤 Personal Info

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- github.com/iamlrk
- in linkedin.com/in/ramkiran-lepakshi

🛠 Technical Skills

Python – NumPy, SciPy, MatPlotLib, Pandas, BeautifulSoup, Bokeh, Panda 3D, PyQt5PySide6 (QtFramework), JSON	
SolidWorks	**FreeFlyer**
LaTeX	**Microsoft Office**
Tableau	**PostgreSQL**
MATLAB	**STK	Level - 1**
HTML & CSS	**Fluidyn cae-cfd**
SQLite	**Simulink**
CATIA V5	**ANSYS Workbench**

🏅 Achievements

1. Awarded the "**Best Innovative Student Project**" in 2021 by National Design Research Forum - NDRF for MOPy

📄 Certifications

1. Certified for **Product Design and Manufacturing** from NPTEL.
2. Certified for **Ethics, Technology and Engineering** from Coursera.
3. Certified for **MATLAB & Simulink** Course from Udemy.

📧 Extra-Curricular Activities

1. Co-Organized **Science Fest** for National Science Day as Event Coordinator — **2020**
2. Co-Organized a Cultural Fest - **Sammaithri** as Event Coordinator — **2019**
3. Co-Organized **Freshers Party** as a Lead Organizer — **2018**

🎨 Hobbies

- Reading Books
- Drawing
- Dancing
- Coding

References available upon request.