ROZ LUTHER MEESALA

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OBJECTIVE

Passionate Avionics engineering postgraduate student with a strong foundation in principles and hands-on experience. Eager to leverage theoretical knowledge and research in propulsion, aerodynamics, avionics and spacecraft design. Seeking to contribute to cutting-edge projects and drive advancements in aerospace technology.

Experience

- **HCL Technologies** 2022– 2023

  *A Network Analyst for **Caterpillar** solving issues for clients worldwide.*
  *Reduced the timing of **Service Level Agreement (SLA)** by **24%**.*
  *Performed **incident resolution** , **problem determination** and **Root Cause Analysis** reducing the average time by **13 minutes.***
  SSK Interiors: A website for local interior designing startup, generating up to **32%** in revenue.

Skills

- **Aerospace Standards:** ARP4754, DO-254, DO-178B, DO-160
- **Avionics Protocols:** MIL-STD-1553, ARINC 429, ARINC 629, ARINC818
- **Engineering Computation Tools:** MATLAB Simulink, LABVIEW, ANSYS, XFLR5
- **Programming Language:** Python, Java, C, C++, C#
- **CAD and Design tool:** Solidworks, AutoCad, Blender, Figma
- **Web Development:** Javascript, HTML/CSS
- **Embedded Systems:** Arduino Uno/ Nano, myDAQ/ myRIO
- **3D Application tools:** Simplify3D, UltiMaker Cura

Education

- **M.Tech – AVIONICS** 2023– 2025
  Jawaharlal Nehru Technological University ,Kakinada, AP
  CGPA - 7.06
- **B.tech – Electrical and Electronics Engineering** 2018– 2022
  Mother Theresa Institute of Engineering and Technology Affil.JNTUA, Palamaner, AP.
  CGPA - 6.9
- **Higher Secondary Education, Andhra Pradesh , State Board** 2018
  Sree Chaitanya Junior College, Piler
  12th percentage - 81.5%

Courses

- **Rocket Propulsion and spacecraft Dynamics – Kodacy :** March 2024
- **DOTNET– iSoft :** October 2023
- **DevOps– Mind Luster :** June 2023
- **Python – Udemy :** January 2023
- **Front End Developing – Great Learning :** July 2022

PROJECTS

Machine Learning– Driven Object Detection Project Lead:

- Innovatively utilized machine learning to develop object detection algorithms interacting with drone technology for enhancing drone based surveillance capabilities for military applications.
- Created and enhanced customized datasets for military object detection using machine learning techniques. Improving the accuracy and efficiency of identifying threats, monitoring activities and ensuring situational awareness in defense operations.