

ANANTHA SUBASH B

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Objective

Motivated mechanical engineer with a passion for automation and UAV design. Skilled in website penetration testing and seeking opportunities in both core IT and mechanical fields. Adept at leveraging technical expertise to drive innovation and efficiency. Eager to contribute to dynamic teams in diverse industries

Education

Chennai Institute Of Technology, Chennai

2021-2025

Bachelors of Engineering in Mechanical Engineering

CGPA: 8.85/10

Technical Skills

Languages: C++, Python, C, Powershell, Bash Script, Kotlin, Java

Software: Solidworks, Ansys, Mission Planner, Blender

Cybersecurity Tools: Wireshark, Linux, nmap, Burp Suite, httpx-toolkit, Metasploit

Experience

Airosspace R&D Pvt Ltd

Sep 2022 - Sep 2023

UAV System Developer

Chennai

- Designed and developed a LEVEL 5 Autonomy UAV using Solidworks, CATIA, and Ansys.
- Developed UAV Indian Airforce for the Meherbaba Drone Competition.
- Applied Networking knowledge for UAV SITL
- Collaborated across disciplines for UAV automation and Onboard AI Processing using YOLO v5 Model.

Projects

QuadCopter Design |

- Designed a quadcopter with payload capacity of 400g. Utilized effective low cost manufacturing methodologies to fabricate an UAV in composite material.

Cognizant |

- Worked on an industry project - Automation of warehouse management
- Designed an UGV with omnidirectional maneuverability with payload capacity upto 30Kg.
- Fabricated with aluminium and improved the overall performance of an UGV.

Polygon Render Engine | [Git](#)

- Created a Polygon using OpenGL in c++.
- Applied different concepts of graphics like lightning,texture,etc.
- Utilized tools such as Visual Studio to develop.
- Used libraries glfw3.lib,opengl32.lib,glad.lib

Network Port Scanner using PowerShell | [Git](#)

- Developed a PowerShell script for comprehensive network port scanning and connectivity analysis.
- Gained a good understanding of TCP connections on different ports.

Achievements

SAE ISS ADDC 2024 Best payload Dropping Mechanism

July 2024

- * Designed a three link gripper mechanism for efficient payload dropping(Medical Delivery) in UAV.

SAE ISS ADDC 2023 Best payload Dropping Mechanism

August 2023

- * Developed a payload dropping mechanism to an uav without compromising its all up weight

Top 10 in IAF's Mehar Baba II

July 2023

- * Designed and customized an UAV to perform anomaly detection in a runway autonomously.
- * Collaborated with various disciplines to integrate the overall UAV system.

Ranking in Hackerrank

- * 5 Star Ranking in c++ language
- * 3 Star Ranking in Java language

Certifications

Cognizant: Exemplary Work in the Innovative workshop on drone based Operations.

OpenEDG Python Institute: Programming Essentials in Python

CISCO's Introduction to Networks : Introduced to basic Networking.

CISCO's Switching, Routing, and Wireless Essentials

CISCO's Enterprise Networking, Security, and Automation

CISCO's Cybersecurity Essential : Utilized cybersecurity tools to monitor the threat actors action and mitigate it.

EC-Council: Hands-on Penetration Testing with PowerShell