ANANTHA SUBASH B

📞 9487974805   ✉ ananthasubas2004@gmail.com   🌐 Portfolio   in Anantha Subash   ⌂ CyberBashForce

Objective

Network-focused engineering graduate with practical experience in system automation, Linux, and network configuration. Published technical blogs and completed Cisco Network Associate-level training. Skilled in scripting, troubleshooting, and cross-functional team collaboration.

Education

Chennai Institute Of Technology, Chennai   **2021–2025**
B.E. in Mechanical Engineering   *CGPA: 8.85/10*

Technical Skills

Networking: TCP/IP, Subnetting, VLAN, STP, DTP, CDP, OSPF, HSRP, IPv6, Routing, Switching
Programming & Scripting: C++, Python, C, Powershell, Bash Script
Tools & Tech: Cisco Packet Tracer, Wireshark, OpenGL, Mediapipe, ImGui, Linux, Git, GNS3, VirtualBox, VMWare
Soft Skills: Problem Solving, Adaptability, Team Collaboration, Communication
Other: Troubleshooting, Web Application Testing, IoT, System Automation, 3D Modeling

Experience

Scandron Pvt Ltd   **Nov 2024 – Present**
Trainee Design Engineer   *Bengaluru*
  – Designed and developed UAV payload-dropping mechanisms for operational efficiency.
  – Created end-user mechanisms to enhance system usability.
  – Collaborated with engineering teams for iterative design improvements.

Airosspace R&D Pvt Ltd   **Sep 2022 – Sep 2023**
UAV System Developer [Intern]   *Chennai*
  – Integrated YOLOv5's with UAVs using Jetson Nano for real-time AI object detection.
  – Configured RTSP pipelines for low-latency UAV camera feed streaming.
  – Automated networking setup via cron jobs and static IP configuration on embedded Linux systems.
  – Collaborated with Flight Stack, AI, and Hardware teams to unify system architecture.
  – Worked hands-on with CUAV, CubePilot CUBE Orange, Raspberry Pi, and Herelink modules.

Projects

Network Security Toolkit (In Progress) | *Git*
  – Building an auditing toolkit for SOHO networks with automated scans and misconfiguration alerts.

PowerShell Network Scanner | *Git*
  – Developed a PowerShell tool to scan LAN devices, open ports, and detect active services.improving security visibility for Windows networks.

GripXel MK1 – Gesture-Controlled 3D Viewer | *Git*
  – Built a real-time 3D viewer using C++, OpenGL, GLSL, ImGui, and Mediapipe.
  – Enabled touchless controls (pan, zoom, rotate) via gesture detection, improving interaction speed and accessibility.

UAV Design & Integration | *3D Model*
  – Led UAV hardware-software integration for improved flight time and system stability.

Technical Blogs

- **Exploiting DTP: A Guide to VLAN Hopping** – Demonstrated a VLAN hopping attack using Python and discussed mitigation strategies.
- **How Computers Render Graphics** – Built an OpenGL renderer from scratch, breaking down the 3D graphics pipeline.
- **Multirotor UAV Design Guide** – Detailed UAV design process with component optimization and tuning calculators.

Achievements

- **CCNA Networking (Cisco Netacad):** Simulated real-world device configurations in Cisco Packet Tracer.
- **Portfolio Website:** Built ananthasubash.com to host technical blogs and showcase projects.
- **Meherbaba 2 (Indian Airforce UAV Competition):** Led anomaly detection system integration on Jetson Nano.
- **SAE ISS Autonomous Drone Development Competition:** Led a 10-member team; won Best Payload Mechanism, ranked 5th nationally.

Certifications

- **Cisco Networking Academy:** CCNAv7, Cybersecurity Essentials, Networking, Packet Tracer
- **TryHackMe:** Advent of Cyber 2023
- **EC-Council:** Hands-on Penetration Testing with PowerShell
- **OpenEDG:** Python Institute Certified