

EDUCATION

<b>Guru Nanak Dev Engineering College</b> Bachelor of Engineering in Electronics and communication Engineering; B.E(ECE) <b>CGPA: 8.33</b>	Bidar, India <b>June 2018 – August 2022</b>
<b>Ram and Raj PU College</b> Science (PCMB); <b>Percentage: 79%</b>	Humnabad, India <b>June 2017 – March 2018</b>
<b>Matru Mandira High School</b> Karnataka Secondary Education (SSLC); <b>Percentage: 81.12%</b>	Chincholi, India <b>June 2015 – April 2016</b>

SKILLS SUMMARY

- **Languages:** C, C++, Python, Shell Scripting.
- **Embedded Systems:** IPC Mechanisms (FIFO, Shared Memory, Message Passing), UART, I2C, CAN, SPI, Thread Mechanisms.
- **Tools & Debugging:** Vitis, Vivado, CCS, VS Code, LDRA (MISRA 2008), Doxywizard, Draw.io
- **Graphics & UI:** OpenGL, GLFW, GLUT.
- **Networking & Protocols:** MAC, SYNC, Routing Protocols, UART, I2C.
- **Other Skills:** Requirement Analysis, Software Testing, Bug Fixing, Hardware Debug

WORK EXPERIENCE

- Embedded Software Engineer | ALTEN Global Technology, Bangalore | OCT 2022 – Present**
- 2+ years of experience in embedded software development and HSIT testing.
  - Worked on OS porting, network layer protocol development, GPS navigation systems, and hardware integration.
  - Collaborated with DRDO, Dehradun, for real-time system integration and ATP testing.
  - Hands-on experience with touch-based hardware display integration.
  - Debugged and tested software using industry-standard tools and protocols.

PROJECTS

- OS Porting to Desktop PC (Internal Project)**

**Nov 2022 – Feb 2023**

  - Ported an embedded OS to run on Windows and Linux environments.
  - Developed file handling mechanisms in C for better OS compatibility.
- MANET WSC Development, Integration, and Testing**

**Apr 2023 – Mar 2024**

  - Designed UML-based HLD/LLD using Doxywizard.
  - Developed and tested network layer protocols (MAC, SYNC, Routing).
  - Integrated code on SDRs for RF-based real-time communication.
  - Performed final integration and ATP at DRDO, Dehradun.
- GPS Navigator for Fighter Aircrafts**

**Apr 2024 – Present**

  - Developed a navigation system for fighter aircraft.
  - Integrated touch-based hardware displays and communication protocols like UART & I2C, SD CARD, SPI.
  - Worked on OpenGL-based graphical rendering.
  - Debugged software for hardware interfacing and memory management.