

# Syed Adnan

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Software Engineer with 1 year of C++ experience specializing in CarPlay and Android Auto for car head units. Proficient in Linux infotainment systems and data structures with algorithms.

## EXPERIENCE

**Harman Connected Services, Associate Engineer I, SW** | On-site (Bengaluru, India)

Aug 2023 - Present

- Resolved **CarPlay** and **Android Auto** issues within the **In-Vehicle Infotainment System** to ensure seamless user experience.
- Utilized debugging and unit testing to identify and eliminate dead code, resulting in a **30%** reduction in memory consumption ensuring code quality, detecting regressions, and optimizing system performance.
- Identified degradation in CarPlay audio KPI and resolved the issue by implementing the gstreamer state transition in a separate thread which significantly helped in achieving the KPI values.
- Leveraged skills in C, C++, and Object-Oriented Programming (OOP) to develop and optimize applications for CarPlay and Android Auto within Unix and Git environments.

**Bharat Electronics Limited (BEL), Intern** | On-site (Bengaluru, India)

Aug 2022 – Sep 2022

- Learned the contribution of BEL in defense and explored the multiple SBU's present in BEL
- Acquired a solid understanding of radar operational principles and explored the design and development of various military radar systems.
- Developed substantial knowledge of the PCB design and fabrication processes for both single layer and multi-layer PCB's.

## SKILLS

Languages	C, C++, Java, CMake, HTML, CSS, MATLAB
Libraries	C++ STL, C++ Boost
Developer Tools	Git, Gerrit, TeraTerm, PCAN, Klocwork, Valgrind, Confluence, Jira, Docker, Kubernetes
Software/Frameworks	Linux, Google Test, CMake, VS Code, Source Insight, ATS, FACET

## PROJECTS

**Forest Navigation and Monitoring System** | *Embedded C*

Nov 2022 - Feb 2023

- Developed a model to assist travelers in navigating through forests without internet connectivity.
- Implemented a security system in the model which detects forest fires and informs forest department for speedy action.
- Integrated a system which prevents smuggling of natural resources from the forest and combats the poaching of endangered species.

**RF Controlled Fire Fighting Robot** | *Embedded C*

Mar 2022 – May 2022

- A radio-controlled fire-fighting robot that can extinguish the fire.
- This project discusses the detail and top-working condition of a fire-fighting robot and re-capitulates an RF based communication system to monitor the fire affected area using RF transmitter and receiver.
- Executed the project by separating the motion sensing and fire extinguishing components.

## EDUCATION

**SMVIT, VTU, B.E in Electronics & Communication Engineering** | Bangalore, India

GPA: **9.54**

June 2023

**St. Josephs PU college, Senior Secondary Education** | Bangalore, India

Percentage: **93.5**

April 2019

Coursework: Data Structures, Database Management Systems, Operating Systems, Computer Networks, Algorithms, Electronic devices, Signal processing, Communication Systems.

## CERTIFICATES

**Java Programming**

Jan 2022

NPTEL, IIT Kharagpur

**C Programming**

July 2022

NPTEL, IIT Kharagpur

**Enhancing Soft Skills**

July 2022

NPTEL, IIT Kanpur

## ACHIEVEMENTS

- Covid Frontline worker
- District level football player