

# ANJALI YADAV

FIRMWARE ENGINEER

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PUNE, INDIA

## OBJECTIVE

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Firmware engineer with a strong background in embedded systems and Firmware Design & Verification in Automotive Industries. Seeking a position as a Firmware Engineer where I can leverage my expertise in embedded systems, firmware development, and problem-solving skills to contribute to innovative projects and drive technological advancements.

## EXPERIENCE

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Oct 2023-July 2024

Firmware Engineer, Pune, India

REFU Drive India Pvt Ltd

- **Key Projects**
  - **Firmware modification for RPCS 730 28k Inverter variant with additional components for plug connection**
    - Proficiency in Firmware Integration and modification.
    - Leveraged KEIL debugger for STM32 and UAD for Infineon's Tri-core processor for in-depth debugging and troubleshooting of firmware issues at the hardware level.
    - Implemented firmware updates, fixed patches and bugs to increase the reliability of Firmware.
    - Performed Flashing in deployment of machine code in STM32.
    - Worked in Agile methodology with respect to product development.
    - Collaborated with hardware engineers on the development of embedded firmware solutions.
    - Explored PCAN-View software for viewing, transmitting, and recording CAN data traffic by using J1939 Protocol.
    - Optimized and debugged software and hardware issues.

## EDUCATION

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2022-2023

PG Diploma in Embedded Systems and Design (PG-DESD)

CDAC - ACTS, Pune

- **Key Modules:** Embedded C Programming, Data Structures and Algorithms, Microcontroller Programming and Interfacing, Embedded Operating Systems, Linux Device Drivers, Real-Time Operating Systems, IoT.
- **Project:** Enabling FOTA for Smart Connected Products.

The project aims to update or upgrade existing firmware in the STM microcontroller by developing a custom bootloader which is responsible to hold update firmware over the air. Using the ESP32 Wi-Fi module here we download a binary file as a user

application and send the same file via UART to STM32F407 in order to upgrade firmware.

**2016-2019**

**B.Tech. Electronics & Communication Engineering**

B.B.S. College of Engineering &

Technology, AKTU, PRAYAGRAJ

- **Project:** Automatic Car Parking System.

The aim of this project is to automatize the car parking such that, it will always show the nearest parking slot. LCD is provided to display the information about free space for car parking. Transmitter Receiver used in the project to identify the entry of the car & are arranged face to face across gate so that the Rx should get IR signal continuously.

## TECHNICAL SKILLS

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- Hands on experience with microcontrollers.
- Understanding of software requirements and functional specifications.
- Ability to debug software and hardware.
- Proficiency in various debugging tools (IAR, KEIL Debugger).
- Proficient in programming Languages (C, C++, Python).
- Understanding of Communication Protocols (CAN, J1939, UDS (ISO 14229), Transport Layer (15765-2)).

## LANGUAGES

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- English
- Hindi