Swaroop Sanjog Kulkarni

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PROFESSIONAL SUMMARY

Electronics and telecommunication engineer with solid foundation in Embedded Software, C prog. and DSA, Embedded Systems, Embedded OS (Linux), Embedded linux device drives , RTOS , FPGA programming , EDA tools & PDK. A well organized individual ready to learn new concepts and apply my learnings to practical implementations.

EDUCATION

CDAC PG-Diploma in Embedded Systems Design **Feb. 2025 - July 2025**
Sunbeam Infotech, Hinjewadi, Pune. *Percentage: 59.82*

B.E. in Electronics and Telecommunications **Jun. 2020–Jul. 2024**
Savitribai Phule Pune University *CGPA: 7.48*

MHT-CET **Feb. 2020**
Class XII *Percentile: 80.24*

SSC Board of Maharashtra **Mar. 2018**
Class X *Percentage: 72.60*

Technical Skills

Technical Skills: Microcontroller/Hardware Programming, Embedded System, Computer Architecture, C Prog, DSA, Embedded OS (Linux), Linux Device Drivers, Linux Kernel, RTOS, Networking, Digital Electronics, EDA tools and PDKs, System Architecture, ARM Cortex, DCN.

Languages: C/C++, Embedded C , VHDL , SQL
Developer Tools: VS Code, Arduino IDE, Xilink Vivado, MATLAB, Protuse, STM32 Cube IDE, Ovetleaf(Latex)
Microcontrollers: 8051, PIC18, nodeMCU, STM32, Beaglebone Black
Communication Protocols: CAN — I2C — SPI — RS232

EXPERIENCE/INTERNSHIP

Pantech E-Learning [IETE] **July 2024 – Aug. 2024**
IOT Internship *Baramati, Maharashtra*

- Arduino, Sensors, Raspberry Pi, Blynk App, Comm. Protocols

PROJECTS

Multi-App Firmware with Custom Bootloader| *https://github.com/SwaroopK70/Custom_Bootloader* **Feb 2026**

- Developed Managing Multi-App Firmware Environment with Custom Bootloader.
- STM32F407 Microcontrollers, LM393 IR sensor, LM35, CP2102 UART module.

Vehicles Dashboard using CAN-protocol and IOT | *https://github.com/Dashboard-Design-System* **July 2025**

- Developed a Vehicle Dashboard using CAN protocol and display it on Web page using IOT technology.
- It shows Temperature levels, Fuel level, and Speed On dashboard using sensors and actuators.
- STM32F407 Microcontrollers, MCP2551 CAN trancereceiver, LM393 IR sensor, DHT11, fuel level sensor, ESP8266 Wi-Fi module.

IOT Based Smart Parking System | *Arduino, IR sensor and ESP Wi-Fi module.* **June 2023**

- Developed a real-time Parking System system.
- IOT Based Web Application Can Monitor and Manage by using the Parking System , made up of Arduino, IR sensors, ESP[WIFI] module in Physical Layer.

CERTIFICATIONS

Embedded C Workshop By SYMBIOSIS INSTITUTE OF TECHNOLOGY 13 April 2024
Python Programming By Dhaapps 8 May 2024
Corporate Training By VIOSA
21 Days Tranning Jetson Nano By Pantech E-Learning

INTERESTS

Business Learning— Politics & External Affairs.— Online Gaming(COD-M)— Audio Books