

Pallavi Sonkar

Devlayout Colony, Behind Police Station, Washim, Maharashtra,
India Email: pallaviganeshjyoti@gmail.com Phone: +91 9172288416
,9637972263.

Profile

I am a passionate Software Engineer with over 2.8 years of experience specialized in embedded systems and firmware development. I have a proven track record in designing and optimizing communication protocols and real-time applications. My goal is to leverage my skills in a dynamic organization contributing to innovative solutions in IoT, Automotive, and Consumer Electronics.

Work Experience

SOFTWARE ENGINEER | DAIKOKU INNOVATIONS LLP

- RFC
- Developed a three-phase energy meter project using the **LPC54S018** microcontroller and the **ATM90E32AS** energy metering IC. The project integrated the **EG915U-EU** module for communication and a SIM card for data transfer, utilizing **AT** commands via UART. Responsibilities included designing and implementing firmware to enable seamless **UART** communication, optimizing energy data collection and transmission processes, and ensuring system reliability through rigorous testing and validation. The solution provided real-time monitoring and efficient data transfer capabilities, meeting the project's functional and performance requirements.

CYCLOPS

- Temperature monitoring system project utilizing Arduino technology. Developed a temperature monitoring system using **Arduino UNO**. Integrated temperature sensor for accurate readings. Designed an interface to display real-time temperature data. Implemented control mechanisms based on temperature readings. Conducted extensive testing and calibration.

HEARTH PATCH

- Utilized the **NRF52832** microcontroller to interface with the **BMI270** sensor using the **I2C** communication protocol. Developed and optimized firmware to read motion data from the BMI270 sensor, ensuring accurate and timely data collection. Conducted extensive testing and debugging of the I2C communication to ensure data integrity and system reliability. Utilized **VS Code** for development and debugging.

Education

BACHELOR OF ENGINEERING | ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Sipna College of Engineering and Technology

DIPLOMA | IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Government Polytechnic, Washim.

• Skills & Abilities

- Programming language C, C++ ,Python
- Embedded C
- I2C , UART,SPI,USB.
- Microcontroller eg, ARM, PIC , NRF,NXP
- RTOS , Linux.
- Wireless Communication eg, Bluetooth , zigbee.
- Excellent interpersonal and communication skill. • IDE : Keil, VS Code, MPLAB, • GSM.

Certifications

Embedded Systems

**PROVIDER: NASHIK ENGINEERING
CLUSTER VALID FROM: JUNE 2018**

PG Diploma in Embedded System Design

**PROVIDER: CENTRE FOR DEVELOPMENT
OF ADVANCED COMPUTING (CDAC),
HYDERABAD
VALIDITY: FEBRUARY 2020 – JANUARY
2021**