Prince Maurya
Embedded Software Engineer

Energetic embedded software engineer with more than two years of work experience in develop innovative solutions that enhance product performance and user experience. Team player with a will do attitude, phenomenal communication skill, and strong user focus.

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WORK EXPERIENCE

Embedded Software Engineer
Ms Electrovision Pvt. Ltd.

04/2023 - 01/2024   *Gurugram Haryana*

Achievements/Tasks

- Designed and developed firmware for Abov microcontroller-based systems using C programming language.
- Collaborated with hardware engineers to design and test firmware for new products, ensuring compliance with industry standards.
- Debugged and resolve issues with existing firmware, improving system reliability and performance.
- Worked on Home Appliances related projects .

Embedded Software Engineer
Tevatron Technologies Pvt. Ltd.

04/2022 - 03/2023   *Noida*

Achievements/Tasks

- Designed and developed firmware for ESP32,ESP8266,and AVR microcontroller-based systems using C programming language.
- Worked with various communication protocols such as UART,SPI,I2C and RS-485.
- Assisted in the development of documentation for technical specifications and user manuals.

Embedded System Internship
Cetpa Infotech Pvt.Ltd.

08/2021 - 02/2022   *Noida*

Achievements/Tasks

- Demonstrated a strong understanding of embedded systems and programming languages through successful completion of multiple projects during the internship.
- Learned to use various development tools, such as Atmel Studio, STM32 Cube ide, Arduino, eagle, and Proteus to design and test embedded systems.

EDUCATION

Diploma(Electrical Engineering)
Govt. Polytechnic Baizpur Bhiti Ambedkar Nagar

72.2%

Bachelor Of Technology(Electrical & Electronics Engineering)
Dr. A.P.J. Abdul Kalam Technical University

Pursuing(2024)

SKILLS

`C Programming` `Embedded C Programming` `AVR,ARM` `Internet Of Things` `UART,I2C,SPI` `ADC, Timer, Interrupt, PWM` `Debugging and Analyses` `IDE: Atmel studio, Keil, Proteus, Arduino.` `Firmware`

PROJECT

Touch Window Air Conditioner
- Worked on Stepper Motor which is play a crucial role in achieving precise and controlled movement for flap in air conditioner.
- Worked on NTC Temperature Sensor that can used for temperature measurement and control.

Split Air Conditioner
- Worked on BLDC Motor which is allows for variable speed operation.
- Worked on TM1651 IC, which is I2C based IC for display which monitor the system's status and troubleshoot any issues.

Smart Air Cooler
- Worked on Infrared Sensor, which is enables wireless communication between the user and the air conditioning unit.
- Worked on Float Sensor, which is managing the water level within the cooler's water reservoir.

IOT Soil Parameter Data Logger(IOTSPDL)
- Worked on JXBS-3001-RS Soil Sensor, which measure the soil fertility major component of soil fertilizer is nitrogen, phosphorus, potassium, soil temperature, moisture, salt content, and soil PH.
- Worked on SIMA7672S GSM Module, which sends the above mentioned soil content data to Thing speak server.

Over-The-Air Firmware Update
- Worked on ESP32 MCU, which updates the code available on the server by downloading it from the server with the help of HTTP protocol.

ACHIEVEMENTS

Amongst the Top 10 Students in the Academics.

Summer Training at DLW (Diesel Locomotive Works) Indian railway .

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency