**Shashank Shekhar Pandey**

**PROFILE**

A budding Electrical and Electronics Engineer, seeking an Internship in a dynamic organization with

special interest in the area of Embedded System resulting in meaningful contribution to the organization along with personal and professional development.

**EDUCATION**

* **B.Tech** **Electrical and Electronics Engineering**

**CGPA – 8.13 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **Class 12** – 84% **2019**

Institution:

* **Class 10** – 8.2% **2017**

Institution:

**TECHNICAL INTERESTS**

Embedded System Design

Automotive Electronics

**PROJECTS**

**Development of BLDC motor controller unit for Electric Vehicle.**

· **Duration/Period**: July 2022-ongoing

· **Objective**: To developand compare a simulation for the various methods of BLDC motor control and

implement the hardware for the most optimized method.

· **Tools or techniques used**: NXP LPC 1768, Keil.

· **Outcome**: Sensor-based Controller of three-phase BLDC Motor using NXP LPC 1768 with motor control peripheral

has developed. PWM signal has been generated using Hall-effect position sensor.

**Analysis and forecasting of air pollution at industrial location-IoT**

· **Duration/Period**: Apr 2022 - Jun 2022

· **Objective**: Analyzing air pollution level and different other parameters using MQ7, MQ135 and DHT11.

Multiple Client nodes of ESP32 connected to single Web server using WebSocket Programming.

Prediction of air pollution level using Linear Regression ML model.

· **Tools or techniques**: Arduino IDE, Python, HTML,CSS.

· **Outcome**: Prediction of CO using ML model and development of WebSocket server

for live data logging has been implemented.

**Designing IoT based Smart Farming System**

· **Duration/Period**: Sept 2021 - Dec 2021

· **Objective**: To design a smart farming system using various sensors and raspberry pi.

· **Tools or techniques**: Thonny, Arduino IDE.

**Outcome**: This system is going to irrigate fields automatically based on moisture level and other

parameters also data is collected on cloud for monitoring.

**TECHNICAL SKILLS**

Communication Protocols, Proteus, Keil, Python, C, C++, RTOS, ARM CORTEX

**INTERNSHIP**

**Society of Automotive Engineering mBAJA**

ATV Design | Electrical Engineer | Sales and Marketing

From Nov 2020-June 2022 | Serving in Team Torpedo

**ACHIEVEMENTS & HONOURS**

LIVE IN LABS (UNESCO Chair in Engineering for Human and Sustainable Development)

|  |  |
| --- | --- |
| ·  · | Area / Topic / Details: Program offered by Amrita University which intends to alleviate the problems in rural India working in inter-disciplinary teams using engineering solutions.  When & Where: From July 2021 – June 2022| Serving in Team Vita Hominibus. |

Secured 3rd position in Drone Racing Competition organized by Anokha 2020 Amrita Vishwa Vidyapeetham

Certified SOLIDWORKS Associate 2021

**LANGUAGES**

English, Hindi, Punjab