PerfectVIPs

YP

PROFESSIONAL SUMMARY

- **3** months of experience in **Embedded Software Development**
- Knowledge of **UART, SPI, I2C** & **MQTT** protocols.
- Good Knowledge on **programming languages** like **C, C++, Verilog**.
- Good understanding of **Digital Electronics, Embedded** & **VLSI** .

PROFESSIONAL EXPERIENCE

Company: PerfectVIPs **Embedded Engineer** **June 2019 – Present**

PROJECT DETAIL

Project: Transferring Data from Android Application to An e-paper Display **3 Months**

Description: **Data (Image and String)** are transmitted using **android application** to **Raspberry Pi** over **MQTT (Message queuing telemetry transport)** protocol. Transmission was done remotely, Android application works as a **publisher** and **Raspberry Pi** works as a **subscriber**. Collected **data** are displayed on **e-paper display**.

Roles & Responsibilities:

- Involved in **Subscriber code development** and implementation

ACADEMIC PROJECTS

Project: Bidirectional Visitors Counter **3 Months**

Description: This is done using basic concepts of **digital electronics**. **Up-down counter** is used to count appropriate number according to detection of entry and exit of the person with the help of **IR sensor module**. Number is displayed on **7-segment display.**

Roles & Responsibilities:

- Involved in **Circuit designing, implementation** and **testing**

Project: Path Follower & Obstacle Avoider Robot **3 Months**

Description: The project involves interfacing of **ultrasonic sensor, color sensor, servo motor** with the **Arduino**. This **robot** follows the specific color and obstacles are avoided by using **ultrasonic sensor** and **servo motor.**

Roles & Responsibilities:

- Involved in **Code development** and **implementation**

Project: Design & Implementation of GUI & Hardware Interface for LHCD(Lower Hybrid Current Drive) Data Acquisition of 64 Channels **3 Months**

Description: For confinement of **plasma, power** is directed from different **64 channels**. **Raspberry pi** is used as an intermediate device. **Data** is read by network of **ADCs** and **decoder** then mapped according to ideal characteristics to obtain **power** and **phase** of the **signal.** Collected data is displayed on **GUI,** stored in an **excel file** and transferred to another computer for **distant monitoring**.

Roles & Responsibilities:

- Involved in **Hardware designing, code development** andimplementation

EXTRA CURRICULAR ACTIVITIES

- Event coordinator in **felicific** (**tech**-**fest**) **2016** - **2017** organized by **D.D.University**.
- Attended workshop on sixth sense robotics at**IIT**-**Bombay**.
- Participated in **e-yantra (IIT-Bombay**) competition.
- Certified as a first runner-up in technical event at **techfest** in **DigitalElectronics**.
- Attended course of **java language**.

TECHNICAL SKILLS

Protocol knowledge: **UART, SPI, I2C, MQTT**
Programming Languages: **C,C++,Verilog,Assembly**
Tools: Basics of **Keil, Matlab, Scilab, Quartus, Multisim, Proteus, Arduino IDE**
Operating System: **Windows, Linux**

EDUCATION

B.Tech in Electronics and Communication Engineering from **Dharmsinh Desai University,** Nadiad in 2018 with 8.06 CPI