

RESUME

Gitanjali Basavaraj Murumkar

E-mail: gitanjali.murumkar@gmail.com

Contact: +91 9766509689/+91 7020309992

Job Objective

In quest of career enrichment in the field of Embedded Software Design & Development with a leading organization of repute preferably in Pune

Profile Summary

- Almost 3 years 6 months of experience, hands on experience of Electronics Product Development.
- Currently working as **R & D Engineer** in HITACHI AUTOMOTIVE SYSTEMS PUNE.
- BE in Electronics Engineering from Pune University in 2014.

Work Experience

- **Hitachi Automotive Systems Pune(India) Pvt Ltd**
Embedded Software Developer
 - **Blower Fan Regulator**
A Blower Fan Regulator is a part of a Heating, ventilation and air conditioning Systems (HVAC) in verticals. It controls the speed of the blower motor.

Platform:
Hardware – PIC16f1613, PIC12F1840 by Microchip
Software – MPLAB X IDE v3.35
- **Endure Solutions Pvt Ltd**
Embedded Software Developer
 - **Development of touch panel and IR transmitter**
A touch based panel is made which can control various home appliances like lights, fans etc. using relays. In addition to switching, the appliances can also have the dimming functionality with the help of the regulator provided on the panel.

Platform:
Hardware – CY8C4245AXI-483 by Cypress, ARMLPC2387 by NXP
Software – PSoC Creator v3.2, keil uVision4
 - **Building Management System (BMS)**
The building management system involves the monitoring & control of equipment like water pumps, lifts, generator sets etc. which are commonly found in buildings. All the equipment can be monitored and controlled from a central control station. The individual contribution involves establishing an Ethernet communication between all the equipment and the central server.
Platform:
Hardware – ARMLPC1768 by NXP

Software – keil uVision4

- **Humotronix Software Pvt Ltd**
Embedded Software Developer

- **Development of IOT based Home Automation System**

The Home Automation System is designed using the WIFI wireless communication protocol. The main panel which acts as a coordinator contains switches for controlling each home. Along with working as a controller for switching the appliances on & off.

Platform:

Hardware – CY8C4245AXI-483 by Cypress, Arduino Uno R3 (ATMEGA328P)

Software – PSoC Creator v3.2, Arduino v1.3

- **Video door-phone**

Video door-phone is a stand-alone intercom system used to manage calls made at the entrance to a building (residential complex, detached family home, workplace, etc.) with access controlled by sending a live image on android phone.

Platform:

Hardware – Raspberry Pi 2 (BCM2837 by Broadcom)

Software – Python 3.5.0

Knowledge Purview

Technical knowledge of –

- C, Embedded C, Python etc
- Microcontrollers –PIC16F1613, PIC12F1840, LPC2148, LPC2387, ATMEL328P, CY8C4245AXI-483 by Cypress etc.
- Communication protocols – UART, I2C, SPI, Wi-Fi , Zigbee, Bluetooth ,basics of CAN and LIN
- Schematic and PCB Design
- Analog & Digital Electronics
- TCP/IP protocol
- Raspberry Pi

Education

BE in Electronics from Padmashree Dr. D.Y. Patil Institute of Engineering & Technology, Pimpri (Pune University) in 2014

Paper Published

The Paper entitled “PERFORMANCE ANALYSIS OF RF MODEL OF WIRELESS SENSOR NETWORKS” was published in International Journal of Research in Engineering & Technology (IMPACT: IJRET) in the Jun 2014 edition. The paper has been selected in the top researches by the journal.

Personal Details

Date of Birth: 26th Feb, 1992

Language: Indian

Permanent Address Premdeep, 206/B, Ajmera near Master Bekary, Pimpri, Pune