Manish Kumar <table-of-contents> manish123.ggn@gmail.com 🔤 (+91) 9891510401

🚀 Career Objective

To seek a challenging position in the area of Embedded Hardware Design to evolve continually with the organization goals.



Work Experience

Senior Embedded Hardware Engineer

Embedded Hardware Engineer

Embedded Design Engineer

Embedded Hardware Engineer

Intozi Tech Private Limited

Mar 2022 - contd.

Intozi Tech Private Limited

Mar 2021 - Mar 2022.

IBG Data Analytics and Software LLP

Dec 2019 - Mar 2021.

Ahoy Systems Private Limited

Jun 2018 - Nov 2019.

Technical Competencies

- Research in projects according to customer requirement.
- Make Architecture, design and component libraries.
- Prepare Schematics, Layout and BOM
- Final designing and fault finding in PCB and circuit.
- Reduced manufacturing costs and functionality by updating existing products.
- Make prototype, board bringup and hardware debugging
- Hands on experience with soldering Iron, multimeter, Oscilloscope.
- Prepare reports and test plan of hardware
- Strategic Planning for Product Development Cycle and manage delivery timeline.



Projects

ANPR Toll and Parking Camera

- Interfacing of modules, sensors, camera and IR with developer kits and working on heat transfer from IP67 enclosure.

LoRa/LoRaWAN Smart Streetlight

- It involves a combination of sensors. These devices can detect movement that enables dynamic lighting and dimming, all surrounding lights will brighten until movement is no longer captured and it also allows neighboring fixtures to communicate with each other through LoRa and LoRaWAN communication.

Smart people counter

- People counter using TOF sensor and data manipulation in cloud using wireless protocol.

ATM surveillance

 Sensor reading using NONC switch and also embedded with modbus keypad for security and communicates through WIFI.

GPS Tracker

- Battery powered device which have accelerometer, GPS and various sensors communicates through LoRa and LoRaWAN communication.

WiFi - 4G/NBIoT Platform

- ESP32 based WiFi platform with 4G or NBIoT connectivity for industrial applications along with various sensors and battery backup.

Robot Rover - B.Tech Project

- Interfacing servo motor, dc motor, camera and many sensor with the arduino mega and raspberry pi and following are the features that we worked on this device: Handshake, Face Detection, Object Detection.

Skills

PCB Design Software
Wireless Communication

Wired Protocols Microcontrollers

IDEs Developer Kits Autodesk Eagle, Cadence Allegro(Learning phase)
LoRa, WiFi, GSM, Bluetooth, 4G
RS485, UART, ADC, I2C, SPI, Ethernet
STM32, ESP32, ESP8266, Raspberry PICO
Arduino, Thonny

NVIDIA Jetson Nano, NVIDIA Jetson NX, Raspberry Pi



Maharaja Surajmal Institute of Technology (GGSIPU)

B. Tech - Electronics and Communication Engineering

Shree Sai Institute of Engineering and Technology (HSBTE)

Diploma - Electronics and Communication Engineering

2015-2018

overall percentage: 73.52 **2011-2014**

overall percentage: 67.03

Personal Information

Father's NameMr. Dalip KumarMother's NameMrs. DeepikaBirthplaceGurugram, HaryanaDate of BirthDecember 03, 1996

Martial Status
Single
Permanent Address
H.No 18, Block -J, Ashok Vihar-II, Gurugram (Haryana)-122001

Declaration

I hereby declare that the above information provided are true to best of my knowledge.

Date: May 04, 2022 Manish Kumar

Place: Gurugram