SHIVARAJ K M

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Oshivaraj



CAREER SUMMARY

An Electronics and Communication student seeking to pursue a carrier in the field of embedded systems and design.

EDUCATION

• Undergraduate (current)

B.E (Electronics and Communication) | BMS College of Engineering, Bangalore | Visvesvaraya Technological University | CGPA 9.42 (5th sem) | Passing Year - 2020.

• Pre-University

Vijaya Bifr PU College, R V road Bangalore | NCERT (PCME) | Aggregate 89.16% | Year - 2016.

• 10th SSLC

Bangalore Higher Secondary School, R V road Bangalore | State Board | Aggregate 88.64% | Year - 2014.

PROJECTS

1. Maze solver robot with Flood fill Algorithm

- Implemented using Atmega 328 Microcontroller, 8 IR array sensor for line detection. It has two parts dryrun and path tracing:
- (a) In dry it covers all the nodes and get the status of each and every node.
- (b) After dryrun the algorithm is applied and path tracing starts.

2. Two wheel Balence Bot

- A DMP (Digital Motion Processing) algorithm by InvenSense is used for MPU6050 sensor to get the . Controller used Atmega 328.

3. Gesture Controlled Robot

- It has two parts transmitter(hand) and reciever(Bot):
- (a) A sensor accelrometer is used in transmitter and based on X and Y value from the sensor direction command is transmitted to bot part.
- (b) The data received from the transmitter is passed to the controller and command is written to the accuators(motors).

4. MINI projects

- 1. Smart Parking system using Logic gates.
- 2. Portable Function Generator using MULTISIM simulation software.

INTERNSHIP experience

• TATA POWER SED Private limited

—Worked on Electromagnetic Interference and Compatability (EMI and EMC).

TECHNICAL SKILLS

• Programming Languages

- -Proficient: Embedded C, Python, Verilog
- -Intermediate: 8051 Assembly language, Java, MATLAB

• Hardware Knowledge

Nuvoton 8051 microcontroller, Arduino, Atmega 2560, ARM7, Cortex M3, NodeMCU ESP8266, RF and bluetooth modules.

• Software Knowledge

Xilinx Vivado, Cadence Virtuoso, TensorFlow, Matlab and simulink, Multisim, ROS kinetic, Atmel studio, Arduino.