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shivaraj

**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 Balance 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.