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shashank

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 8.48 (5th sem) | Passing Year - 2020.
- **Pre-University**
  Sarvodaya PU College, Horpet Tumkur | NCERT (PCME) | Aggregate 97.52% | Year - 2016.
- **10th SSLC**
  Maruthi Vidya Kendra | State Board | Aggregate 95.52% | 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. **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).
3. **Obstacle avoider bot**
   A simple bot that can sense the obstacle in its way and change the direction :
4. **MINI projects**
   1. Smart Parking system using Logic gates in multisim software and its hardware is implemted.
   2. Laser locking intruder system for border security.
   3. 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
  –**Intermediate:** Python, 8051 Assembly language, MATLAB, Verilog, html and Css

- **Hardware Knowledge**
  Nuvoton 8051 microcontroller, Arduino, Atmega 2560, NodeMCU ESP8266, RF and bluetooth modules.

- **Software Knowledge**
  Xilinx Vivado, Cadence Virtuoso, Matlab and simulink, Multisim, Atmel studio, Arduino.