VIKAS MALI

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OBJECTIVE

- To enhance my expertise in the field of embedded systems and robotics by working on projects involving hardware and software and build a career in it. With strong fundamentals in IoT , I am currently looking for opportunities which would help me achieve my goals.

TECHNICAL SKILLS

- **Languages known:** C, C++, Python, Assembly Language (8085, 8056, ARM, Pentium)
- **Tools and Frameworks:** Matlab, Inkscape, Cadence, Kiel, Proteus, AutoCad, CircuitMaker.
- **Technologies:** Arduino, Processing, Raspberry Pi, ESP Boards, Natural Language Processing, Machine Learning.

EXPERIENCE

- June2018 - Summer Intern on Parallel Computing using Nvidia Jetson TK1 at RAIT, MUMBAI.

SELECTED PROJECTS:

CNC 2D Plotter:

- Plots basic two dimensional figures on 4*4 inch of paper using Stepper motor and Optical Disk of CPU Floppy Drive using Inkscape software.

Home Automation:

- Automatic control of house appliances like TV, fan and light using self-made mobile application (MIT AI2) and also through the Wi-Fi and server which can be accessed from anywhere in the world.

App and Gesture Controlled Car:

- A simple toy car was converted to smart car by taking access to all the motor connections of it and was controlled by self-made mobile application and can also be controlled by attaching sensor in hand to control the car using gestures.

Radar System and Room Mapper:

- It is made using ultrasonic sensor which detects objects within an range of 13 feet in underwater. Room Mapper also uses the ultrasonic sensor but it has useful application in which it can detect the topography or the virtual map of an unknown room.

Jarvis using Natural Language:

- Jarvis is a smart assistant which can be collaborated in many IoT projects to make project intelligent. It uses Natural language libraries to pick keywords from the spoken sentences and act accordingly.

Color Detector and Tracker:

- Processing code which can detect and track colors, blob and face with histogram skin detection packed in one code.

Simple Message System:

- A code developed in Processing to communicate between ports of hardware attached to computer and control them to function as master and slave.

EDUCATION

- University of Mumbai, 2020 Bachelor of Electronics Engineering; CGPA: 6.98/10
- Birla College of Arts, Science and Commerce, 2016 High School Science; Marks: 78.46
- Smt. K.C. Gandhi English School, 2014 Secondary School; Marks: 91.2

CERTIFICATIONS

- AWS Fundamentals(Coursera)
- University of Michigan(Coursera): Applied Machine Learning in Python
- University of Pennsylvania(Coursera):Aerial Robotics, Estimation and Learning, Mobility, Computational Motion Planning.
- University of Buffalo, SUNY(Coursera): Computer Vision Basics
- LearnQuest(Coursera): Cloud Computing.
- NIIT: C, C++, Data Structures and Algorithms.

HOBBIES

- Swimming, Cooking.