

Kshitija Mirkale

Electronics Engineer

Personal Info

E-mail

kshitija.mirkale@gmail.com

Date of birth

15/08/1996

Skills

Simulation Tools :

Keil, Mplab, Quartus, Proteus, Matlab, PSPICE, microwind

Hardware :

555, opamp-741,8051, ATMEL AVR (Arduino), ARM Cortex M0+ (basic), Programmable SoC (PSoC 4) (Intermediate), ADC (Intermediate), IOT (Basic), WiFi (Basic), Bluetooth Low Energy (BLE) (Basic), Accelerometer (Intermediate)

software

pygame(basic), PSoC Creator IDE (Intermediate), ARM mbed IDE, Node-RED

languages

C,C++,Embedded C, Python, HTML, VHDL, Verilog, MATLAB

English, Hindi, Marathi, Sanskrit, German

Co-curricular Projects

● Final Year Project: Soil quality Testing using microcontroller ● LPG gas leakage detector ● Object counter without using microcontroller ● Gesture controlled robotic arm using ATMEL AVR (Arduino) and servo motors

Interests

Reading novels, playing chess

EDUCATION

2012 S.V. Joshi highschool, Dombivli(E) (SSC): 92.73%

2014 K.V.Pendharkar college, Dombivli(E) (HSC):80.77%

2018 K. J. Somaiya college of engineering, Mumbai (BTECH): 9/10

2019 Indian Institute of Technology Madras, Chennai (MS): Pursuing

INTERNSHIPS/INDUSTRIAL TRAINING

1.Intern

‘Digital system, Mulund’(Manufacturer in electronics industry)

Projects worked on- 1.Water level indicator,

2.’5V power supply’ design without use of transformer

3.Astable multivibrator circuits

4. handy power bank

2.Trainee

Telecommunication department of INDIAN RAILWAYS’

3.Trainee

Eduvance(ARM University Program,Cypress Semiconductors University Training Partner)

- Data Acquisition system serial communication and plotting the real time output.
- Multi Node Wireless Data Acquisition system using an nRF24L01P transceiver pair.
- High speed motion detection using a 3-Axis Freescale Semiconductors MMA8451Q accelerometer with FRDM KL25Z
- Gesture Controlled USB Mouse
- Wireless Gesture Controlled Mouse.
- IoT Sensor Node and data transmission over a WiFi interface to a Thingspeak Server using ESP8266.
- PC controlled DAQ using Node-RED, thingspeak cloud notifies user via mail /twitter.
- Temperature Monitoring System with a graphical user interface made on Node-Red Using Cypress PSoC
- Data Acquisition system using serial communication and plotting the real time output.
- PSoC Bluetooth Low Energy (BLE) FindMe beacon
- Custom Home Automation Controller using PSoC Bluetooth Low Energy (BLE)

4.Trainee in Industrial Python Programming Training

Eduvance (ARM University Program Training Partner)

- Python basics and game development using pygame
- IOT Data Analytics using Python
- Games: 2048, memory game, snake game, tic tac toe game, card game
- Web-scraping with BeautifulSoup4 in python
- Automated Bulk Email sending using Python
- IOT Sensor logging

CO-CURRICULAR AND EXTRA CURRICULAR ACTIVITIES

- Secured AIR1395 in EC Gate 2019
- Joint technical Head for ‘EESA Council’
- project ‘Digital piano’ in state level project conference ‘Prakalpa’
- Workshops attended:concept of java, c++ workshop, virtual reality workshop
- Workshops conducted:BEE workshop
- Secured 3rd prize in Chess during the academic year 2013-2014 organized by K.V. Pendharkar College of Arts, Science & Commerce, Dombivli (E).