Syeda Shaista Zainab P

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Looking for a challenging and responsible opportunity, to explore strengths and potentials and to gain experience from a professional organization to meet employer expectations and to continually develop my technical skills in the field of embedded systems with a view to join a team of professionals and to work with a progressive company for a long and rewarding career.

# WORK EXPERIENCE

* **ADVANCE EMBEDDED SYSTEMS** since Nov 2023
  + Currently undergoing hands-on technical training program – **Advanced Embedded Systems Course** at Emertxe Information Technologies [(http://www.emertxe.com),](http://www.emertxe.com/) Bangalore
  + This course is Government of India certified program, aligned with Skill India / NSDC under Electronics Sector Skill Council of India [(http://www.essc-india.org)](http://www.essc-india.org/) - Embedded Software Engineer QP ELE /Q1501

# TECHNICAL SKILLS

### Programming Languages:

* + Shell scripting
  + Advanced C programming
  + OOP using C++
  + Data structures

### Embedded controllers:

* + Hands-on working with GPIOs, Analog I/Os, Memory usage, interfacing, character LCD
  + Peripherals usage - Timers, Counters and Interrupts
  + Communication protocols - UART, SPI, I2C etc

### Embedded platforms:

* + Distributions - Linux (Ubuntu)
  + PIC (16F877A) board

### Development environment and tools:

* + Dev environment: Vim, Makefiles, MPLAB
  + Compilers: GCC, XC8
  + Debuggers: GDB

# EXPERIENCE

# PCB testing (ODU card, UMOCA card).

# Functioning Spectrum Analyzer, Vector Signal Generator and Oscilloscope.

# Developed GUI window for GSAT7R Project.

# EDUCATION

* + B.E (ECE), JIT(Davangere), 70%, 2019-2023
  + 2nd PU(PCMB), 80.66%, 2019
  + SSLC(StateBoard), 82.08%, 2017

# PERSONAL ATTRIBUTES

* + Quick learning of new initiatives
  + Ability to meet deadlines through effective time management
  + Ability to work effectively under pressure
  + Maintaining healthy interpersonal relationships with team
  + Team player with work ethics, committed to work hard and sincere

# PROJECTS

## Projects at Emertxe:

### Command Line Test(By using Bash Scripting)

This is a command line test application that allows users to sign in, take a test, and answer questions within a time limit of 10 seconds per question. The application is designed to provide a quick and timed assessment experience.

### Image Steganography using LSB Encoding and Decoding

The objective was to send a secret text file encoded inside an image of bmp file format. Encoded the length of the secret text and then encoded the data into the LSB of the image bytes. The decoding process involves decoding the length and then decoding the text bit by bit. The final output is the secret text after decoding.

### InvertedSearch

An "inverted search" project involves implementing a type of search engine that uses an inverted index data structure for efficient and fast retrieval of information. The inverted search approach is widely used in various information retrieval systems, including search engines, databases, and document management systems.

### Car Black Box Implementation

This project is a car black box system designed to enhance vehicle safety and provide critical data in the event of an incident. Similar to an aircraft black box, it captures and stores detailed information about a vehicle's performance and environment.

## Academic projects:

### Voice Assisted Text Reading System For Blind And Visually Impaired Persons

This project is run by the source code of Python to assist blind dumb and deaf people in a single device which is so compact and easy for them to manage.

### Obstacle Detector for Blind Persons Using Arduino (mini project)

In this Project we have designed a device that will help blind persons to detect an obstacle. This device is efficient and has unique capability in specifying the source and distance of the objects that may encounter the blind.

# INTERNSHIP

* + Successfully completed an Internship on “Machine Learning with Python”, with a mini project titled “Drug Classification System”.

# EXTRA-CURRICULAR ACTIVITIES

* + I have attended a Python and Machine Learning workshop.
  + I have attended a PCB DESIGN workshop.
  + I have participated in “Ideathon” held in JITD.
  + Completed Great Learning courses and LinkedIn courses.
  + Completed MathWorks course