

GILLA BHUVANA SRI

Email: bhuvanasrigilla11@gmail.com | Phone Number: 7674041951

CAREER OBJECTIVE

To establish a long-term career in a company where I can develop my technical skills in the field of embedded systems and prove myself by efficiently utilizing my skills, knowledge, confidence thus resulting in organizational growth as well as my individual development

WORK EXPERIENCE

- Currently undergoing technical training program – **Advanced Embedded Systems Course** at Emertxe Information Technologies (<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>) - **Embedded Software Engineer QP ELE /Q1501**

TECHNICAL SKILLS

- Programming Languages:
 - Shell scripting
 - C programming
 - OOP using C++
 - Data structures
- System programming:
 - Linux Kernel system calls
 - IPC mechanisms – Pipe, FIFO, Shared memory
 - Network Programming using TCP and UDP sockets
 - pThreads – Multi thread programming
- 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

COURSE WORK

- Digital Electronics
- Embedded systems

EDUCATION

- M.Tech (Digital Systems and Computer Electronics), JNTUH, 8.06 CGPA, 2021-2024
- B.Tech(ECE), G Narayanamma Institute of Technology and Science, 7.45 CGPA, 2016-2020
- Intermediate(MPC), 93.9%, 2016
- Class – X, SSC, 98%, 2014

PROJECTS AT TRAINING

Project Number:1

Title	Image Steganography using LSB Encoding and Decoding
Project brief	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.
Technologies used	Embedded C – File operations, Pointers, Bitwise operations, Functions, Makefiles, Command line arguments

Project number:2

Title	Inverted Search
Project brief	The purpose of an inverted search is to allow fast full-text searches, using the concept of inverted index, at a cost of increased processing when a document is added to the database. Inverted Index is a database index storing a mapping from content, such as words or numbers, to its locations in a document or a set of documents.
Technologies used	Data Structures–Hashing, Single Linked Lists, Makefiles

Project number:3

Title	Car Black Box
Project brief	The objective was to implement a Car Black Box and keep track of 10 latest events. Initially a Default Screen is seen on CLCD, where the events can be recorded. User should Login before accessing the information in Black Box. If Login is successful, a menu screen will be seen, where user can view logs, clear logs, download logs, set time and Change password.
Technologies used	MPLAB, Pcsim Lab (PIC16F877A), CuteCom

ACADEMIC PROJECTS

Title	Implementation of FSM based March SS algorithm for testing of memory
Project brief	The aim was to detect realistic faults in memory using FSM based March C and March SS algorithms
Technologies used	Digital system design- Finite State Machine (FSM) Design, March C and March SS Algorithms, Xilinx Vivado Tool

Title	Bidirectional Visitor Counter
Project brief	The aim was to count the number of persons entering and exiting the room, and avoid taking attendance manually
Technologies used	Embedded C- Arduino, Infrared Sensors, LCD Display