

**CONTACT**

Email: [sravaniragolu138@gmail.com](mailto:sravaniragolu138@gmail.com) | ph no: 8374428015

**CAREER OBJECTIVE**

Passionate and skilled engineer looking for an opportunity to work as an Embedded engineer or VLSI Engineer where my professional skills can be utilized towards personal as well as organizational growth.

**TRAINING DETAILS**

Currently undergoing hands-on technical training program - **Emertxe Certified Embedded Professional (ECEP)** at Emertxe Information Technologies (<http://www.emertxe.com>), Bangalore.

**INTERNSHIPS**

- Advanced VLSI design ,SURE Trust.
- VLSI Training from Internshala : I have learned the training consisted of introduction to VLSI,HDL coding concepts,combinational circuits,sequential circuits design,Finite State Machines,System Design Using FPGA and cse studies & Final project modules.

**TECHNICAL SKILLS**

**Programming Languages:**

- ✓ Advanced C
- ✓ Linux Systems
- ✓ Data structures & Algorithms
- ✓ OOPS with C++
- ✓ Digital Electronics
- ✓ CMOS
- ✓ Verilog

**Embedded controllers:**

- ✓ Hands-on working with GPIOs, interfacing, character LCD, Analog I/O
- ✓ Peripherals usage - Timers, Counters and Interrupts.
- ✓ Communication Protocols: UART, SPI, I2C,CAN.

**Development environment and tools:**

- ✓ Dev environment: Vim, Makefiles
- ✓ Compilers : GCC, XC8,Xilinx vivado

**Embedded Platforms:**

- ✓ PIC16F87AA

**PERSONAL ATTRIBUTES**

- ✓ Quick learning of new initiatives.
- ✓ Able to meet deadlines through effective time management.
- ✓ Able to work effectively under pressure.
- ✓ Work ethic, committed to working hard and sincere.

**EDUCATION**

- ✓ Btech (Electronics & Communication) from Rajiv Gandhi University of knowledge and Technologies(IIIT SRIKAKULAM), in 2023 with CGPA 8.5
- ✓ PUC from Rajiv Gandhi University of knowledge and Technologies(IIIT SRIKAKULAM), in 2019 with CGPA 8.6.
- ✓ SSC from Regidi Amadalavalasa, Andhra pradesh, in 2017 with CGPA 9.7.

## PROJECT DETAILS

### Title IMAGE SETGANOGRAPHY

**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** C language - Function pointers, File I/O handling, File pointers, string operations, Bitwise operations.

**Key challenges & Learning's**

- ✓ The use of file pointers and File operators.
- ✓ Byte-wise and bitwise manipulation of data by declaring a local buffer to encrypt and decrypt data.

### Title DESIGN HYBRID ADDER USING VERILOG

**Project brief** Collaborated with a team to design a hybrid adder using verilog as part of final year project Design a Hybrid Adder by comparing four adders those are ripple carry adder, carry look ahead adder, carry select adder and kogge stone adder The Hybrid adder is designed by the combination of carry select adder and kogge stone adder in order to produce an effective adder by improving the main features such as power consumption, area, delay, more over speed.

**Technologies used** Digital electronics-Adders,comparators  
verilog

### Title CAR BLACK BOX

**Project brief** Black Boxes are typically used in any transportation system (ex: Airplanes) that are used for analysis post-crash and understanding the root cause of accidents. Continuous monitoring and logging of events (ex: over-speeding) is critical for the effective usage of the black box. The goal of this project is to implement core functionalities of a care black box in a PIC-based microcontroller supported by rich peripherals. Events will be logged in EEPROM in this project. This project can be further extended to any vehicle.

**Technologies used** Embedded C, PIC Microcontroller, I2C, UART Protocols, interrupt handling, Peripherals.

**Key challenges & learning's**

- ✓ RTC time configuration and updating
- ✓ Timer Configuration
- ✓ External EEPROM Configuration.

**Title** **AUTOMATIC FAN SPEED CONTROLLER**

**Project brief** Here the temperature sensor senses the temperature from the surroundings it gives output signals to the Arduino then Arduino adjusts the fan speed. And the values of temperature and fan speed displayed on lcd.

**Technologies used** Arduino microcontroller.

**Key challenges & learning's** ✓ . Configuring sensors

**Title** **SMART IRRIGATION SYSTEM**

**Project brief** Collaborated with a team to build smart irrigation system using Arduino UNO(microcontroller),Moisture sensor. Based on the Moisture level the pump motor turn on or off.

**Technologies used** Arduino IDE, Embedded C, Sensors.

**Key challenges & learning's** ✓ Sensor configurations and values  
✓ Collecting the previous data sets