

# CHINNAKKA GARI SRAVANI

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## Summary of Skills:

- **Programming Languages:** C, C++, Data structures, Embedded C,
- **Controllers :** PIC 16F877A, 8051, Arduino UNO, Arduino NANO.
- **Peripherals:** Timers, Counters, ADC.
- **Communication Protocols:** UART, SPI, I2C, CAN, TCP/IP, Socket Programming.
- **Software Tools :** Proteus, MPLAB X IDE, Arduino IDE.
- **Operating Systems :** Windows, Linux, RTOS.

## Education:

<b>Dr. KV. Subba Reddy Institute of Technology, Kurnool, AP</b> Electronics And Communication Engineering, With Percentage : 64.59	<i>Dec 2020 – May 2023</i>
<b>Shri Shirdi Sai Institute of Science and Engineering college, Anantapur, AP</b> Electronics And Communication Engineering, With Percentage : 73.39	<i>July 2017 – April 2020</i>
<b>Z P Girls High School, Hindupur, Anantapur, AP</b> SSC With GPA : 7.3	<i>June 2016 – May 2017</i>

## Internship Experience:

<b>Jr. Embedded Engineer (Intern)   Samskar Electronics Pvt Ltd  </b>	<i>Oct 2024 – Mar 2025</i>
<ul style="list-style-type: none"><li>➤ Completed a <b>6-month internship</b> as <b>Jr. Embedded Engineer</b>, working on the <b>Samskar Toy project</b>.</li><li>➤ Involved in both <b>hardware and software development</b> of the product.</li><li>➤ Designed and implemented <b>Embedded C code</b> for toy functionalities.</li><li>➤ Worked on <b>Microcontroller programming, sensor interfacing, and peripheral control</b>.</li><li>➤ Assisted in <b>hardware design, circuit testing, and troubleshooting</b>.</li><li>➤ Contributed to improving product performance through <b>embedded system optimization</b>.</li></ul>	

## Training Experience :

<b>Embedded Systems Training   Emertxe Information Technologies  </b>	<i>July 2023 – Mar 2024</i>
<ul style="list-style-type: none"><li>➤ Completed <b>8 months intensive training</b> in Embedded Systems.</li><li>➤ Gained strong hands-on experience in <b>C, C++, Data Structures and Embedded C</b> programming.</li><li>➤ Worked on <b>Microcontroller-based applications</b> using <b>PIC 16F877A</b>.</li><li>➤ Learned and implemented communication protocols such as <b>UART, SPI, I2C, and CAN</b>.</li><li>➤ Hands-on exposure to <b>TCP/IP stack implementation</b> and <b>Socket Programming</b> for network communication.</li><li>➤ Worked with <b>RTOS concepts</b> including task scheduling, inter-task communication, and synchronization.</li><li>➤ Experience with <b>Linux environment</b> for embedded software development and debugging.</li><li>➤ Practiced debugging and problem-solving for <b>real-time embedded projects</b>.</li></ul>	

## Projects:

### Samskar Toy | During Internship at Samskar Electronics Pvt Ltd |

- Designed and implemented an **interactive electronic toy** as part of internship.
- Involved in **software coding, hardware testing, and feature integration**.
- Hands-on experience in **embedded C, circuit design, and troubleshooting**.
- Enhanced system performance **through debugging and optimization**.

### Image Steganography using LSB Encoding and Decoding | Emertxe training Project |

- Implemented a steganography system achieving a 95% success rate in concealing secret data within digital images.
- Utilized LSB (Least Significant Bit) embedding technique to embed sensitive information securely.
- Developed an algorithm for extracting hidden data with an accuracy of 97%, ensuring reliable retrieval of concealed information.
- Achieved an average processing speed of image, optimizing efficiency in both embedding and extraction processes.
- Tested the steganography system on a dataset of images, demonstrating robustness and scalability.

### Car Black Box (CBB) implementation | Emertxe Training Project |

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

### Wireless digital notice board using Bluetooth | B.Tech Academic project |

Enabled effortless transmission of notices using NodeMcu microcontroller with a WIFI module, facilitating real-time updates and information sharing. Integrated cloud-based auto-notification feature, improving accessibility and ensuring dissemination of critical information to stakeholders. To development of an intuitive and user-friendly interface. Validate functionality and practicality in institutional settings through extensive real world testing, ensuring reliability and scalability for widespread adoption.

**Certifications & Training**

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- **Embedded Systems Training Certificate** – Emertxe Information technologies (8 months).
- **Internship Completion Certificate** – Samskar Electronics Pvt Ltd (Jr. Embedded Engineer, 6 months).

**Personal Details:**

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Date of Birth : 05-06-2002

Languages Known : English, Telugu

Native Location : Singireddy palli(V), Hindupur(M),Sathya sai(D), AP-515201

Current location : Bommanahalli, Bengaluru, KN-560068.

**Declaration:**

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I here by declare that the information furnished above is true to best of my knowledge

Place :

Date :

Signature.

