

# KORRA NARSIMHA

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## EDUCATION

<b>Indian Institute of Information Technology, Design and Manufacturing</b> Btech in Electronics and Communication Engineering CGPA: 7.76	Kancheepuram, Chennai Dec 2020 – May 2024
<b>TTWREIS JR. COLLEGE</b> MPC -Marks: 976/1000	Balanager, Mahbubnagar June 2018 – May 2020
<b>Pragna High School</b> GPA: 10.0	Amangal, Ranga Reddy June 2011 – May 2018

## EXPERIENCE

<b>Embedded System Engineer</b> <b>Boson Motors Pvt Ltd</b> <ul style="list-style-type: none"><li>Explored and implemented CAN protocol for transmitting and receiving CAN messages.</li><li>Actively worked with STM32CubeIDE, STM32F407VET6 MCU, SD cards using FATFS, and DBC file creations.</li><li>Implemented <b>Unit-Testing</b> using <b>Ceedling</b> Framework, Debugging CAN errors and done POC for CAN mode change.</li><li>And had a good experience with <b>Oscilloscope, Multilinker, Multimeter, SMPS.</b></li><li>Gained good experience of working with <b>FreeRTOS</b> using STM32 and implemented <b>SEGGER</b> analyzing tool.</li></ul>	Oct 2024 – present Chennai, TamilNadu
<b>Embedded Software Intern</b> <b>Srushty Global Solutions</b> <ul style="list-style-type: none"><li>Explored and implemented <b>PID Algorithm</b>, which helps to synchronize the motor speed according to the requirements.</li><li>Explored and implemented OTA for firmware updates in ESP32 in same network.</li><li>Actively participated in project meetings and contributed innovative ideas to enhance project outcomes.</li></ul>	May 2023 – Nov 2023 Chennai, Karapakkam

## PROJECTS

<b>Electrical Table   Advance C, Keil uVision, N76E003 Microcontroller, DC Motors, Hall Sensor, UART</b> <ul style="list-style-type: none"><li>Applied PID concepts to synchronize motors, optimizing operational efficiency.</li><li>Implemented EEPROM functionality through I2C protocol for efficient communication.</li><li>Managed code versioning effectively using Git, facilitating collaborative development and tracking changes.</li></ul>
<b>Weight monitoring system using cloud   ESP32, Arduino Ide, AWS, MQTT, 14 segment led display, Load cell</b> <ul style="list-style-type: none"><li>Developed a cloud-integrated weight monitoring system.</li><li>Implemented MQTT protocol for continuous data transmission to AWS.</li><li>Implemented OTA for firmware updates and displayed the weight in a 14-segment LED display.</li></ul>
<b>Food Quality Detection   Audino, DHT11-Sensor, MQ3-Sensor, LDR-Sensor, LCD, Connecting Wire</b> <ul style="list-style-type: none"><li>Developed a real-time food monitoring system that collects sensor data continuously and performs quality assessment using predefined thresholds.</li><li>And integrated the system with an LCD display for visual feedback. Demonstrated strong proficiency in Arduino programming, sensor integration, and real-time monitoring for food quality detection.</li></ul>
<b>Vacuum Cleaner from electrical waste   Got 3<sup>rd</sup> Prize in "Ideathon" on Sustainable Development Goals</b> <ul style="list-style-type: none"><li>Designed and built a functional vacuum cleaner using electrical waste components, including a CPU fan, mobile charging cable, switch, pipe, and filter.</li><li>Repurposed the CPU fan to generate suction, connected it to a power source using a modified mobile charging cable, and incorporated a switch for convenient control.</li></ul>

## TECHNICAL SKILLS

<b>Languages</b>	: Advance C, Python, C++, FreeRTOS, Linux commands, Linux Internals (Beginner).
<b>Developer Tools</b>	: Ubuntu, VS Code, GIT, STM32Cube IDE, S32DS, VSCode, Keil uVision, Arduino IDE, PyCharm.
<b>Microcontrollers</b>	: Arduino, ESP32, STM32F407VET6, N76E003.
<b>Protocols</b>	: CAN, SPI, SDIO, I2C, UART, OTA, MQTT.

## EXTRA ACTIVITIES

- Graded **A+** in Final year Project.
- GATE 2024** Qualified in EC paper.
- Two times got **3<sup>rd</sup> place** in Ideathon on Sustainable Development Goals.
- Served as **Coordinator** in Placement cell in IIITDM.
- National Kho-Kho Player** and Khleo India State Champion in Kho-Kho.
- Languages known **English, Hindi, Telugu.**