

TARUN SAI GAMPALA

CONTACT

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SKILLS

C, C++, Java, Python, HTML, CSS
Verilog, System Verilog, UVM
Data Structures and Algorithms
AI & ML, IoT, Blockchain

EDUCATION

Batchelor of Technology ECE
Vellore Institute of Technology

2021-2025
Grade: 9.09

Intermediate Education (XII)
Sri Chaitanya Jr College
2018-2020
Grade: 9.3

LANGUAGES

English
Telugu
Hindi
Kannada
Marathi

ACHIEVEMENTS

- Secured first prize in ECS expo by VITAP university.
- Winner of IOT hackathon by Gudlavalleru college.
- Achieved third prize in science expo by Karnataka Lingayat Education Society.
- Attained second prize in math expo by Karnataka Lingayat Education Society.

PROFILE

An Electronics and Computer Science Engineer, passionate about innovation, blending technical expertise in hardware design with hands-on experience in programming and AI, seeking to contribute to cutting-edge projects and solutions. Tech not only strengthens our society but also brings a positive effect. Only together we can build better future, therefore my communication and team working skills.

WORK EXPERIENCE

Embedded Intern at PDIC, Bharat Electronics Limited (BEL), Ministry of Defense

November 2023 - December 2023

- Assessed boards like Nucelo F030R8. Programmed GPIO drivers from scratch.
- Examined AM5728, GPIO and protocols.
- Implemented various communication protocols such as SPI, UART and I2C, etc.

Arduino Intern, Pantech AI, Remote

April 2023 - May 2023

- Engineered many sensor prototypes and projects such as health monitoring, rat trap system and home automation.
- Gained a great expertise in various sensors such as DHT-11, flux sensor, etc.
- Investigated on various protocols such as SPI, UART, I2C and also on various communication modules such as WIFI, BLE, LoRa, LiFi, etc.

PROJECTS

Mega Home Automation

- Complete home automation from tanker to trash can using ESP8266.

RFID and ESP8266 based Smart Attendance System

- RFID, ESP32 and SQL based smart attendance system

Advance Security Surveillance System for Farms

- Crafted a security system which includes radar, motion detection capture, electrical fencing and also animal detection using OpenCV and yolo

Speech and Emotion Analysis

- Developed sentimental analysis and speech analysis using CNN and NLP.

Covid 19 Detection

- Covid 19 detection using machine Learning, CNN.

Smart Mining Helmet (MINESAFE)

- A smart mining helmet with LoRa, LiFi and radio frequency technologies

EXTRA CURRICULAR ACTIVITIES

- President of IETE-VITAP(Institute of Electronics and Telecommunication Engineers):** Administered around 10 - 15 expo's, hackathons and enforced learning environment in the community by leading.
- Campus Ambassador Of IDS-Blockchain The node:** Coordinated more than 10 national level events, workshops and industrial Guest Lectures.
- President of IEEE, VITAP:** Participated, engaged and directed more than 15+ various interaction activities.
- President of ELA (English Literary Association):** Supervised 5+ events such as Halloween and enforced IELTS and literature learning into the community.