

# CHINAGANI THARUN SAI YADAV

• +91 9390607013 • chinaganitharun@gmail.com • [LinkedIn](#) • [GitHub](#)

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## SUMMARY

Seeking a responsible career position which will utilize my technical skills and knowledge and gives an opportunity to enhance my career prospects which contribute to growth of the company and move towards professional success in life.

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## EDUCATION

Bachelor of Engineering in New Horizon College of Engineering - 8.44 CGPA	2020-2024
Intermediate in Sri Chaitanya Junior college Vijayawada – 8.84 CGPA	2018-2020
SSC in Sri Chaitanya E/M High School Anantapur – 9.8 CGPA	2017-2018

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## TECHNICAL SKILLS

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|---------------------------|-------------------|-------------|
| • HTML                    | • JavaScript      | • Git       |
| • CSS                     | • VHDL            | • VS Code   |
| • C                       | • My SQL          | • GitHub    |
| • C++                     | • Python          | • MS office |
| • Embedded C              | • Problem Solving |             |
| • Assembly level language | • Bootstrap       |             |

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## EXPERIENCE

### VLSI Intern at Edu phoenix Solutions oct 2023- mar 2024

- Designed and simulated RTL (Register Transfer Level) descriptions using Hardware Description Languages (HDLs) for VLSI systems.
- Performed functionality testing and converted RTL descriptions into gate-level netlists using logic synthesis tools, ensuring compliance with timing, power, and area specifications.
- Applied structured VLSI design methodologies to optimize chip layout and interconnections for efficient utilization of chip area.
- Worked on VLSI applications in areas like high-performance computing, telecommunications, and image processing, focusing on practical implementation and design optimization.

### ADVANCED EMBEDDED FIRMWARE and IOT conducted by Vivartan Technologies Jan 2023 – Sep 2023

- Developed and optimized firmware for IoT devices, integrating sensors and peripherals using protocols like UART, SPI, I2C, and MQTT.
- Implemented low-power solutions, RTOS-based multitasking, and secure communication frameworks for reliable IoT systems.

- Conducted end-to-end testing, debugging with JTAG and oscilloscopes, and deployed IoT solutions on platforms like AWS IoT.
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## PROJECTS

### Automated Vehicle Crash Alert ∞

- This project uses a Raspberry Pi integrated with sensors like an accelerometer and gyroscope to detect vehicle crashes by analysing sudden impacts and changes in motion.
- It employs a GPS module to determine the vehicle's location and sends automated alerts to emergency contacts via SMS or email, reducing response time and potentially saving lives.
- The system is designed to minimize false positives using advanced algorithms and includes features like a manual emergency button for non-crash incidents. With its affordability and adaptability, it is suitable for personal vehicles, commercial fleets, and public transportation.

### Design of water sprinkler and pesticide sprayer Robot ∞

- The robotic system automates irrigation and pesticide application, optimizing water use and ensuring precise pesticide distribution.
  - Equipped with sensors and GPS, it provides real-time data collection and accurate navigation across the field.
  - Operates autonomously, reducing labour and increasing efficiency in plant care and resource management.
  - Allows remote control and monitoring, offering flexibility and convenience for farmers to manage tasks from any location.
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## CERTIFICATIONS

- Enterprise Data Science Course Completion Certificate Provided by IBM. ∞
  - Threat Intelligence and Hunting Course Completion Certificate Provided by IBM. ∞
  - Enterprise-grade AI Course Completion Certificate Provided by IBM. ∞
  - Python Essentials Course Completion Certificate by Cisco Network Academy. ∞
  - CCNA: Introduction to Networks Course Completion Certificate by Cisco Network Academy. ∞
  - Cybersecurity Essentials course Completion Certificate by Cisco Network Academy. ∞
  - NPTEL Online Certification in Demystifying Networking. ∞
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## HOBBIES

- Web Surfing
- Listening Music
- Reading Books
- Playing Cricket
- DANCING
- Volleyball

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## **DECLARATION**

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