



G ROHITH

Actively learning about advanced hardware technologies and astrophysics, with a keen interest in VLSI design and the study of black holes. Driven by curiosity and a passion for discovery, continually expanding knowledge through research, experiments, and hands-on practice. Dedicated to building a strong foundation in both theoretical concepts and practical applications,

Contact

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Education

2009-2021 School - Chettinad

vidyashram 2021-2023 school

- krmm

2023-2027

Electronics and
communication Engineering
KCG COLLEGE OF TECHNOLOGY

Expertise

- Networking
- Programming (c , c++)
- CISCO packet tracer
- ui and ux

Language

English

Tamil

Telugu

Hindi

Projects

STR(SECURITY TRACKING RUGGED BAG)

- Designed and built a smart bag using ESP32, magnetic reed switch, magnet, and rechargeable battery for enhanced security and tracking.
- Integrated GPS module with mobile application support to track the bag's real-time location and log data to the Blynk cloud platform.
- Implemented theft detection using the magnetic reed switch to trigger alerts when the bag is opened without authorization.
- Contributed to PPT creation, UI model design, and research & development to ensure a user-friendly

SMART AIR QUALITY MONITORING SYSTEM USING EMBEDDED

- Designed a comprehensive smart environment monitoring solution integrating multiple sensors (humidity, air quality, PIR, light, and temperature) with a quad op-amp (LM324) and ESP32 microcontroller.
- Enabled real-time monitoring, alerts, notifications, data analysis, and automation through sensor fusion and Wi-Fi/cloud connectivity.
- Contributed to PPT design, UI model creation, and research & development to ensure an intuitive user interface and robust system architecture.

Neuro-Assist: (AI & IoT-Based Support System)

- Developed a smart assistive solution combining a wearable device and mobile application to enhance safety, independence, and cognitive support for individuals with Alzheimer's disease.
- Integrated real-time health monitoring, location tracking, and AI-driven assistance to provide proactive care and reduce caregiver workload.
- Worked on hardware integration for a wearable assistive device designed to support individuals with Alzheimer's disease

MOBILE APP FOR FARMERS

- Developed a mobile application concept aimed at helping farmers increase crop yield and maximize profits by reducing dependency on middlemen.
- Designed the UI and UX model to ensure a simple, intuitive, and farmer-friendly interface that supports easy navigation and accessibility.
- Conducted research & development to identify key features such as real-time price updates, direct buyer connections, and crop management tips

Soft Skills

- Problem solving and Critical thinking
- Adaptability and Time management
- Very good communication and presentation skills

Lip-to-Text Assistive Glasses for the Deaf

- Designed a concept for smart glasses equipped with a camera to detect and interpret the lip movements of the person in front.
- Processed lip movement data using offline data structures to convert them into words displayed through a connected mobile application.
- Contributed to research & development to optimize detection accuracy and ensure smooth offline processing without internet dependency

AUTOMATIC OBSTACLE DETECTION FOR BLIND PEOPLE

- Developed an assistive device using ESP32 to detect obstacles in real time, enhancing mobility and safety for visually impaired users.
- Integrated ultrasonic sensors for distance measurement and alert generation through buzzer/vibration modules.

CERTIFICATIONS

- VIKISIT BHARAT QUIZ
- PALS-THE POWER OF HIGH QUALITY
- PITCH PERFECT HACKATHON
- IDEATHON FOR CTL
- PRECISE ENERGY QUIZ
- PALS TINKATHON
- INPLANT TRAINING IN CODEBIND
- AI WORKSHOP
- INNOVATIVE MINI PROJECT
- NPTL-CLOUD COMPUTING
- CMR THINKFEST 2.0
- KCG YOUNG TECHNOCRATS 2,O

ACHIEVEMENT

- Runner Up In Ideathon 2024 conducted by KCG college of technology
- Winners in Innovative Mini project hosted by KCG collage of technology

INTERNSHIP

December 2024 CodeBind Technologies

- I was exhibited an enthusiastic attitude for learning in addition to bring quite industrious and dependable

December 2024 to january 2025 SystemTron

- completed my one month internship in Embedded programming internship at systemtron

VOLUNTEER EXPERIENCE

- AI work shop •implant training •volunteer Ideathon in CTL •Experience in Organising Event Management