PRADEEP EG

+916379882007 | egpradeep2005@gmail.com | E.G. Pradeep | LinkedIn | EGPRADEEP (E.G.PRADEEP) (github.com)

SKILLS

C, Python, Machine Learning, DSA , System Verilog

EDUCATION

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY   Tiruchirappalli

Bachelor of Technology in Electronics and Communication Engineering - CGPA : 8.2   2022–Present

CHELLAMMAL MATRIC.HIGHER SEC.SCHOOL   Tiruchirappalli

12TH :78.8 Percentage   2021–2022

10TH :98.6 Percentage   2019–2020

PROJECTS

SOIL MOISTURE DETECTING SENSOR   MAR-2024

- Developed a sensor-based agricultural system to monitor soil moisture, temperature, and humidity, ensuring real-time data acquisition for optimizing crop health.
- Efficiency Assessment**:** Tested system reliability across different terrains, achieving a improvement in water usage efficiency and supporting sustainable farming initiatives.

LOW POWER TRANSMISSION USING LORA TECHNOLOGY   JAN-2025

- Low Power Communication System: Implemented Long range, Low Power wireless communication using the Lora SX1276 module interfaced with STM32F103C6T6 microcontroller for efficient sensor data transmission.
- Robust Connectivity Testing : Evaluated communication performance across varying distances and environments,achieving stable data transfer up to several kilometers and demonstrating suitability for remote monitoring applications.

FALL AND DETECTION SYSTEM USING NODEMCU AND MPU6050   JUN-2024

- Real-Time Fall Detection: Designed a system to detect falls and notify caregivers using MPU6050 sensor, with real-time processing on NodeMCU.
- Accurate Motion Analysis: Developed algorithms to differentiate between normal activities and fall events, leveraging MPU6050's precise motion-tracking capabilities.

EXTRA CURRICULAR ACTIVITIES

IIIT SRI CITY HACKATHON (POWERED BY PLANOTECH GROUP OF COMPANIES)   DEC-2023

CURRENTS'24 EVENTS (PRESENTED BY MICRON)   MAR-2024

Held at National Institute Of Technology Tiruchirappalli

PROBE'24 WORKSHOPS(PRESENTED BY QUALCOMM AND INNOVIANS TECHNOLOGIES)   FEB-2024

Held at National Institute of Technology Tiruchirappalli

INDUSTRIAL TRAINING AT BSNL   DEC-2023

Held at Tiruchirappalli

MSME IDEA HACATHON 4.0   OCT-2024

VOLUNTEER AT IDE BOOTCAMP   SEP-2024

Held at SRM Institute of Science and Technology,Tiruchirappalli

LANGUAGES

Tamil, English