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Objective

I enjoy fixing electrical problems and working on hardware projects. I'm also really into connecting things to the internet using embedded systems. I've led teams on projects in these areas. My work involves building hardware, writing code for embedded systems, and linking devices to the internet. I find leading teams and finding practical solutions.

Education

Good Shepherd Higher Secondary School, Marthandam

SSLC

— 2019-85%

Good Shepherd Higher Secondary School, Marthandam

HSC

— 2021-84%

St. Joseph's Institute of Technology

Bachelor of Engineering (ECE)

— 2025-8.02 CGPA (Till 6th Sem)

Achievements & Awards

Won 1st prize in SATWA National Level Technical Hackathon(36 hours) conducted in saintgits college of engineering,kotayam,kerala.The top prize in a national-level competition. Our team dominated the event, winning first place and a cash prize of 75000. It's a testament to our hard work and innovation.

Won 3rd prize in the Symposium conducted at Easwari Engineering College (SRM Group) among 54 competing teams from different colleges.Our project, "Comprehensive Power Monitoring System using IoT," which was implemented in Distribution transformers. Our project garnered recognition for its innovation and practical application.

Technical Skills

Electrical Troubleshooting

Electronic Measuring Instruments

Computer Hardware Troubleshooting

Hardware Setup

IOT and Embedded System

Proficient in connecting varied circuits and producing outputs

Certifications

Industrial Internet of things 4.0 (NPTEL ELITE(72%))

Cloud Computing (NPTEL ELITE(73%))

Introduction to Internet of things 4.0 (NPTEL Elite+Silver(76%))

Internet of Things/Embedded systems (coursera(95%))

Embedded (NIEIT,Calicut)

Hardware Projects

Uncomplicated Clap Automation

August 2022 to September 2022

Developed an uncomplicated clap automation project, designed to prevent electric shocks to children (activated by just clapping) and also useful during emergencies for specially-abled people

Cellular Device Detection in Restricted Premises

January 2023 - February 2023

Cellular device detection in restricted premises involves planning and equipment installation for monitoring. Continuous analysis identifies unauthorized devices, triggering responses like signal blocking or alerting security personnel for effective security measures.

IoT based Smart Security and Surveillance System using GSM Module

August 2023 - September 2023

An IoT-based Smart Security and Surveillance System utilizes a GSM module for communication and integrates sensors for monitoring. It enables remote access and alerts via mobile networks, enhancing security with real-time updates and timely threat responses.

Access Granted Power

April 2024 - May 2024

The Password-Activated Power Supply Control System is a smart solution designed to conserve electricity by regulating power flow through authentication. Users enter a specific password via a keypad, granting access to the power supply. This system enhances energy efficiency by ensuring electricity is only utilized when necessary, making it ideal for both residential and industrial applications.

Comprehensive Power Monitoring System Using Internet Of Things

May 2024 - Present

The power monitoring system tracks distribution transformer performance with integrated sensors for fault detection and environmental monitoring. Real-time data, including GPS info, is displayed on an LCD, while cloud-hosted webpages provide remote access for comprehensive oversight. This IoT solution combines ESP32 technology with sensor integration to ensure efficient monitoring and enhanced transformer functionality.

Software Projects

Advanced Random Password Generator

February 2024 to March 2024

An Advanced Password Generator using Python and AI. Safeguard your data with highly secure and unpredictable passwords tailored to modern cybersecurity standards.

Echoes of Insight-Quote Generator

March 2024 to April 2024

Create and explore an ever-changing collection of wisdom with our Random Quotes Generator. Powered by Python, this dynamic web application leverages APIs to fetch inspiring quotes, presented in a sleek and customizable HTML/CSS interface.

Convert Meister

April 2024 to May 2024

"Convert Meister" simplifies conversions with its intuitive interface. Whether it's converting lengths, weights, temperatures, or more, this tool provides instant results, making unit conversions effortless and hassle-free.

Fun Trivia Quiz Website with Flask and Open Trivia API

May 2024 - June 2024

Unleash your inner quizmaster with our interactive Trivia Quiz Web App! Powered by Flask and the Open Trivia API, this project offers endless fun with random trivia questions. Test your knowledge, challenge your friends, and dive into a world of entertainment – all with just a few clicks.

Internship

Name of Organization: IREL (India) Limited

Duration : 10/06/2024-08/07/2024

Description: During my Internship Training in IREL (India) Limited, I also had the opportunity to witness and participate in equipment maintenance activities. This included the repair and maintenance of Powerpacks, UPS systems, Motors, LEDs, and PID controllers. These tasks highlighted the critical role of preventive maintenance in ensuring continuous and efficient plant operations.

Name of Organization: Prasar Bharati All India Radio, Nagercoil

Duration: 08/05/2023-26/05/2023

Description: During my internship at the radio station, I compiled reports on essential aspects of radio broadcasting, including modulation techniques like frequency modulation. I also explored topics such as noise and distortion in communication, vital for maintaining broadcast quality. Additionally, I delved into the equipment required for radio stations, ranging from transmitters and receivers to antennas, microphones, and digital audio devices, as well as audio mixing consoles for seamless production.

Name of Organization: Emertxe Information Technology

Duration: 09/02/2024 to 18/04/2024

Description: Gained hands-on exposure to foundational programming skills in C and microcontrollers. Engaged in SDLC-based project building in embedded systems, providing invaluable learning experience.

Name of Organization: System Tron

Duration: 15/01/2024-11/02/2024

Description of Projects: During my internship at System Tron, I gained foundational knowledge in front-end development. This included learning essential concepts and tools for creating user interfaces. I developed skills in HTML, CSS, and JavaScript, laying the groundwork for building interactive and visually appealing web applications. This experience broadened my understanding of software development and its frontend components.

Name of Organization: Tamil Nadu State Skill Development Corporation (TNSDC) under the Naan Mudhalvan Scheme in association with Pantech E Learning

Duration: 15/05/2023-14/06/2023

Description of Projects: During my 30-day internship, I mastered interfacing sensors with microcontrollers, honing my skills in data capture and processing. Additionally, I gained expertise in setting up cloud monitoring systems, enabling real-time data analysis and remote access. This hands-on experience enhanced my understanding of IoT technologies and their practical applications.

Name of Organization: National Small Industries Corporation (A Government of India Enterprise)

Duration: 26/12/2022-02/01/2023

Description of Projects: During my internship at National Small Industries Corporation Limited, I acquired proficiency in software testing utilizing Java Selenium drivers. This involved practical application of testing methodologies and tools to ensure software quality. I gained hands-on experience in writing test scripts and conducting automated tests, enhancing my skills in software quality assurance.

Soft skill

Team player

Interpersonal

Positive attitude

Making prompt decisions

Problem solving

Adaptability

Critical thinking

Software Skill

Tinkercad

Wokwi

Firebase

MATLAB

Ubuntu

Xilinx

Visual Studio

Cadence

AI Knowledge

CHAT GPT

BLACKBOX.AI

TOME.AI

Bing AI

Club Activities

Active member in Innovation Hardware Hackathan(IHH)

Area of Interest

INTERNET OF THINGS

EMBEDDED SYSTEMS

Workshop

Internet of Things at Pantech solutions

Internet of Things at Institute of Electrical and Electronics Engineers(IEEE)

Embedded systems at Retech

Industrial visit

Luminous LED Kundrathur, Chennai

National Institute of Ocean Technology (NIOT), Chennai

Indian Space Research Organisation(ISRO),Sriharikota

Regional Meteorological Centre, Chennai

Language

Tamil(Proficient C2), English Advanced C1), Malayalam(Intermediate B1)