Meenakshi Sundaram S

Electronics and Communication Engineering

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Profile

I'm an aspiring candidate who is highly dedicated and involved in everything I do. I am amazed and inspired by MES & Hardware development and I possess the skills to handle complex projects at ease, with excellent problem-solving skills. My ultimate goal is to grow and develop myself in every aspect.

Professional Experience

2024/03
Hosur

Junior Product Support Engineer at Cantier Systems
MES Implementation,Ignition,IIOT
Programming knowledge:C
Knowledge of SCADA/PLC systems.
Manufacturing processes and automation systems.
Industry 4.0
Real Time Tracking
Validating the Projects
Troubleshooting the Issues in Projects & Networking
Teamwork
Communication
Problem Solving

Education

2015 – 2016
Tenkasi

SSLC
MKVK Matric Higher Secondary School
85.4%

2018 – 2020
Tenkasi

Diploma (Electronics and Communication Engineering)
Arulmigu Senthilandavar Polytechnic College Tenkasi
90%

2020 – 2023

B.E(Electronics and Communication Engineering)
Government College of Engineering Tirunelveli
8.07Cgpa

Skills

Circuit Theory, Digital Electronics, Analog Circuit ,Power Electronics, Soldering of Components, Embedded Systems,Kicad, Schematic & Layout Design, PCB, Modbus Serial ,Modbus TCP, DNP3, MQTT.

UART, RTOS, USB, I2C, SPI, Bluetooth, WIFI, Bluetooth , Microcontroller, Experience with Embedded Systems using Microprocessor,

MES, Traceability-Implementation, Testing, Networking & Communication, Kepware

Interships

2022/06 – 2022/07 **National Small Industries corporation Ltd**
Chennai *Industrial embedded with IOT & AI*
- Worked in the domain of Hardware Developer.
- Design and analysis using MATLAB.

2019/12 **Tamilnadu Electricity Board**
Tenkasi *Inplant Training*
- Learned basic counter measures using that has been done during power shutdown.
- Learned hands on practical methodologies about electricity

Interest

- Potrait Drawing
- Embedded System
- Hardware Development
- Reading Professional Blogs
- Internet of things (IOT)

Certificates

- Inplant Training at Tamilnadu Electricity Board, Tenkasi
- Internship in Industrial Embedded with IOT & AI at NSIC Ekattuthangal- Chennai

Projects

IR Based Jewel Security System
- The IR Based Jewel Security System serves as an effective security measure.
- It finds applications in homes, banks, shops, and restricted areas where the need for an alert alarm exists in response to movement.
- This system relies on an IR sensor as its core component.
- An IR beam is constantly directed at a photodiode.
- When any motion or movement disrupts this continuous Infrared beam, an alarm is activated.

IOT Based Underwater Pollution Monitoring System
- The IoT-based underwater pollution monitoring system involves the measurement of water quality factors like temperature, pH, turbidity, dissolved oxygen levels, and various ions.
- It aims to assess and track the condition of underwater environments.

Reading Temperature Sensor Data & Logging it Via emulated UART using FREERTOS
Concepts & Implementation
- Task-VsensorTask,Vlogger Task
- Queue-XsensorQueue for Intertask Communication
- Timing-Vtask Delay(1000ms) for 1Secs Interval

Transformerless Power Supply using Kicad
A transformerless power supply uses a capacitor to step down the voltage instead of a bulky transformer. These power supplies are suitable for low-current applications such as LEDs or small electronic circuits.

Declaration

I, Hereby declared all information is true to best of my Knowledge

Meenakshi Sundaram S