Jenna R

94881 93864 Passionate Embedded Engineer jennakavidha@gmail.com

EXPERIENCE:

PROCYON TECHSOLUTION | PROJECT ENGINEER
June 2025 - Auguest 2025 | Bangalore,Karnataka

Developed an automated PCB testing machine using LabVIEW, integrating instruments like DMM, oscilloscope, Hi-pot tester, printer, and power supply for seamless testing.

Implemented backend SQL database to store and manage test results efficiently, ensuring accurate data tracking and reporting

PROCYON TECHSOLUTION | PROJECT ENGINEER INTERN
Dec 2024 - May 2025 | Bangalore,Karnataka

- Developed automation systems for PCB testing and a motor test bench machine using LabVIEW during my internship at Procyon Tech Solution. This helped reduce manual work, improved accuracy, and made the testing process faster and more efficient.
- Developed communication drivers for CAN and TCP/IP, enabling seamless data exchange between hardware and software systems.
- Integrated PLCs and created DLLs to enhance system control and ensure smooth LabVIEW integration with other tools.

DCW CHEMICAL LTD | IMPLANT TRAINING
june 2024 - july 2024 | Tuticorin,Tamil Nadu

- Completed implant training at DCW Chemical Limited, gaining hands-on exposure to PLC-based industrial automation, real-time monitoring, sensor integration, and safety systems used to enhance efficiency, accuracy, and safety in chemical processing.

Achievements:

- Solved 300+ DSA problems on GeeksforGeeks.
- Attended 10+ hands-on workshops in Embedded Systems, IoT, and Automation.
- Successfully resolved critical automation, CAN communication, and driver-level bugs during internship.
- Recognized for fast debugging and accurate issue resolution

PROJECTS:

- IoT-Enhanced Heart Disease Prediction Using Machine Learning
- FreeRTOS Real-Time Data Acquisition & Logging System
- Gesture-controlled Robot For Deaf and Dumb using Arduino
- Battery Charge–Discharge Automation System Using LabVIEW, DMM, and CAN
- Hearing Aid using bc547 transistor
- Computer Communication Networks :VPN in cisco packet tracer
- Breast Cancer Detection using microstrip patch antenna
- Music Genre Classification using convolutional neural network
- IoT Human Activity Recognition with DeepLearning
- PCB Testing Automation Framework Using LabVIEW

CERTIFICATIONS:

- Honours Degree in AI & ML with focus on ML, NLP, deep learning, and computer vision.
- Vertical Degree in Embedded System Design covering IoT, embedded architectures, and RTOS.
- Certified in Siemens Industrial Automation (Ladder Logic PLC)
- Completed a 60-day Embedded Systems Challenge on Udemy, gaining hands-on experience with microcontrollers and embedded Prog

NPTEL CERTIFICATION:

- Digital circuits **Elite**
- Introduction to Industry 4.0 and Industrial Internet of Things **Elite**
- Programming In Java **Elite**
- Joy of computing using python **ELite+Silver**

EDUCATION:

MEPCO SCHLENK ENGINEERING COLLEGE
BACHELOR OF ELECTRONICS AND COMMUNICATION ENGINEERING WITH HONOURS DEGREE IN AI AND ML, ALONG WITH A VERTICAL DEGREE IN EMBEDDED DESIGN
2021-2025 |Sivakasi,Virudhunagar
CGPA: 8.18

SKILLS:

Embedded Programming:
- C, C++, Embedded C,C#,Java,Python
- Assembly (8085,8086,8051)

Microcontrollers Processors:
- ARM Cortex (STM32)
- AVR, PIC, ESP32,Arduino

Communication Protocols:
- CAN, LIN, I2C, SPI, UART
- Modbus, RS485, RS232
- TCP/IP, MQTT (for IoT firmware)

Debugging Testing:
- JTAG/SWD
- Oscilloscope, Logic Analyzer
- ST-Link, Segger J-Link

Version Control Collaboration:
- Git, GitHub/GitLab
- Matlab,Simulink
- PLC- Siemens,Delta Electronics,Mitsubishi

Area of Interest:

- Embedded Systems Design and Development
- Firmware Development for Microcontrollers
- Real-Time Operating Systems (RTOS)
- Communication Protocols (CAN, I2C, SPI, UART)
- Embedded C/C++ Programming
- Hardware-Software Integration
- Automation and LabVIEW Integration

LINKS:

Github:https://github.com/jenna2004jna
Linkedin:https://www.linkedin.com/in/rjenna/