

DIVYA DHARSHINI P A

B.E. Electronics and Communication Engineering, 2024

A passionate individual looking for opportunities in the Embedded Domain.

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📍 Haryana, India

🎓 EDUCATION:

- **B.E. ECE:** **2024** | CGPA: **8.162**
Thanthai Periyar Government Institute of Technology, Vellore.
- **HSC: Bio-Maths** **2020** | Percent: **75.83%**
New Prince M.H.S.S, Chennai-91.
- **SSLC:** **2018** | Percent: **92.8%**
New Prince M.H.S.S, Chennai-91.

🔧 PROJECTS:

- **Multi-parameter signal monitoring system using an ARM Cortex-M3 controller: (O Grade)**
 - Integrated temperature, heartbeat, SpO2, and ECG sensors with the **STM32L152RE** controller, improving data collection accuracy.
 - Enabled real-time data recording and transmission to the cloud via Wi-Fi, enhancing data accessibility and remote monitoring.
 - Implemented a medical emergency alert system- via SMS using a GSM modem, increasing patient safety and response time.
- **Medical Gas pipeline monitoring system:**
 - Real-time monitoring of gas pipelines by interfacing Temperature, Humidity, and Pressure sensors with **ESP32**, assisting with maintenance.
 - Developed a cloud-based alert system, enabling timely notifications and responses, which decreases incident resolution time.
- **Hand Gesture Robot:**
 - Interfaced an **Arduino UNO** controller with an infrared sensor for obstacle detection and avoidance.
 - Enabled motion control through hand gestures.

👤 INTERNSHIP:

- **Network Operations Centre (NOC) Engineer:**
Airtel, India. (July – Aug 2023)
 - Overseeing network performance and capacity
 - Diagnosing and Troubleshooting network issues
 - Tracking and documenting network errors
 - Creating incident reports and providing L1 and L2 support

📚 COURSES:

- **ECEN Academy:**
Embedded Systems Programming.
- **Bharath Acharya Education:**
8086 microprocessor, assembly programming.

★ TECHNICAL SKILLS:

- C
- Python
- Communication protocols – UART, Bluetooth, IEEE 802.11, SPI, I2C.
- Microcontrollers -STM32, ESP32, Arduino.
- Sensor interfacing.
- **Others:** MPLS/ SD-WAN, NOC engineering.

★ SOFT SKILLS:

- Communication
- Problem-solving
- Logical thinking
- Organization
- Presentation
- Leadership & Team player

★ LANGUAGE SKILLS:

- English
- Tamil
- Hindi (Learning)

★ FIELD OF INTERESTS:

- Embedded Engineering
- Power supply (SMPS)