DIVYA DHARSHINI P A

B.E. Electronics and Communication Engineering - 2024.

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🎓 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.

🔲 INTERNSHIP:

- **Network Operations Centre (NOC) Engineer:**
  Airtel, India.   (July – Aug 2023)
  - Monitoring, Tracking, and Documenting network errors.
  - Diagnosing and troubleshooting network issues.
  - Provide L1 and L2 support and create incident reports.
  - Overseeing network performance and capacity.

⚙️ 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.

★ TECHNICAL SKILLS:

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

★ SOFT SKILLS:

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

▧ COURSES:

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

★ LANGUAGE SKILLS:

- English
- Tamil
- Hindi (Learning)