Niranjan C

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Kozhikode, Kerala, India

Summary

Final-year Electronics and Communication Engineering undergraduate with a strong foundation in core electronics, communication systems, and embedded technologies. Siemens Scholar with exposure to industry-oriented training, structured problem-solving, and professional engineering practices. Demonstrated ability to analyze technical problems, adapt quickly to evolving requirements, and collaborate effectively in operational environments. Seeking an entry-level engineering role to apply technical knowledge in hardware, automotive, or industrial systems while contributing to reliable and efficient engineering solutions.

Education

- **Government Engineering College, Sreekrishnapuram**
  Bachelor of Technology (B.Tech) – Electronics and Communication Engineering (KTU) 2022 – 2026
  - –Relevant Coursework: Embedded Systems, Digital Signal Processing, Analog & Digital Electronics, Microprocessors & Microcontrollers, Control Systems, VLSI Design, Communication Systems, Industrial Instrumentation

Technical Skills

- **Programming:** C, Embedded C, Python
- **Embedded Systems:** ESP32, Microcontrollers, Sensors (LDR), Actuators
- **Electronics:** Analog & Digital Circuits, Signal Conditioning
- **Control & IoT:** Control Systems Basics, IoT-based Monitoring
- **Tools:** Solid Edge, MATLAB (Basic), Git

Work Experience

- **Assoicate – Operations & Automotive Systems Support** *Kozhikode, Kerala*
  Sreebhas Autos Jan 2021 – Sep 2023
  - –Coordinated automotive parts distribution, ensuring accurate order processing, verification, and timely delivery with high operational reliability.
  - –Applied structured problem-solving to optimize inventory tracking and streamline ordering and workflow processes.
  - –Monitored daily operational activities to improve efficiency, service consistency, and customer satisfaction.
  - –Collaborated with suppliers and customers to ensure component compatibility while adapting quickly to dynamic operational requirements.

Projects

- **Dual-Axis Smart Solar Tracking System**
  Embedded Systems, IoT, Control Systems
  - –Designed an ESP32-based dual-axis solar tracker with a four-LDR sensor array and comparative light-intensity algorithm, achieving **30% energy extraction improvement**.
  - –Implemented IoT-enabled automation including manual override, automatic home-position reset, scheduled ON/OFF operation, and remote monitoring.
  - –Engineered efficient actuator control, power management, and automated panel cleaning to enhance reliability, reduce maintenance, and maximize net power gain.

Key Achievements

- Winner – CBSE National Level Science Exhibition 2019 (Theme: Transport & Communication).
- Designed a smart solar energy system with **30% efficiency improvement** including complete schematic design.
- Selected for Siemens Scholar Program – Batch X, completing advanced industry-oriented technical training and mentorship.

Certifications & Awards

- AI and Machine Learning with Deep Learning – Ethical Edufabrica Pvt. Ltd.
- Basic Mechatronics (BMEX) – Siemens SITRAIN US
- Solid Edge Associate Level Certification – Siemens Digital Industries Software