

# NIHAL GOWDA G Y

## ELECTRONICS ENGINEER

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### Objective

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Motivated **Electronics & Communication Engineering** student specializing in **VLSI Design, Embedded Systems, and IoT Applications**. Skilled in microcontroller programming, PCB design, real-time sensor integration, and hardware troubleshooting. Proven leadership in technical events and project management with a strong focus on innovation and energy-efficient solutions.

### Education

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#### Bachelor of Engineering – Electronics & Communication

Adichunchanagiri Institute of Technology, Karnataka

**Dec 2022 – May 2026**

**CGPA:** 8.70 / 10

**Relevant Courses:** VLSI Design, Microcontroller Systems, Digital Signal Processing , Digital Electronics

### Technical Skills

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- **VLSI Design** : Xilinx ISE, Tanner EDA, VHDL
- **Embedded Systems** : ESP32, Arduino, Raspberry Pi, Embedded C
- **PCB Tools** : Multisim
- **Programming Languages** : C, C++, Python
- **Hardware and Sensors** : IR Sensors, Power Converters , Energy Harvesting Modules

### Projects

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#### Automated Line Follower Vehicle

**Dec 2024**

- Designed and implemented using **Arduino Uno** and **IR Sensor Array**.
- Optimized sensor calibration, achieving **95% path accuracy** in real-time navigation.

#### Non-Biodegradable Waste Energy Converter

**July 2025 - Ongoing**

- Developing an **ESP32-based energy generation system** using Thermoelectric Generators (TEGs).
- Designing **battery storage and monitoring system** with temperature sensing
- Implementing **UPI-based incentive model** for rewarding energy contributors.

### Training & Certifications

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#### Industry 3.0 Certification – Loginware Technologies, Hassan

**Nov 2024**

- Gained practical exposure to **Industrial IoT applications** and real-time data monitoring systems

### Leadership & Activities

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#### Treasurer – IEEE Student Branch

**Jan 2024-Present**

- Managed budgets and logistics for technical events and workshops.
- Represented the branch in **IEEE MTT-S Antenna Workshop** at RVCE, Bengaluru.

#### Member – IEEE Circuits & Systems Society

**July 2025 - Present**