SREEJAN DAS

Electronics and Communication Engineering Student
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Professional Summary

Highly motivated Electronics and Communication Engineering student with a strong specialization in Embedded Systems and a practical, hands-on approach. Experienced in full development cycles involving microcontrollers (ESP32, STM32, 8051), Embedded C programming, and custom PCB design (KiCad). Seeking an Embedded Systems Intern or Trainee Engineer role to apply technical programming skills and contribute to core electronics development.

Technical Skills

- Embedded Platforms: ESP32, STM32 (Nucleo-F401RE), AT89S52 (8051 Family),ARDUINO
- Programming: Embedded C, C Programming, MATLAB (Basic)
- Development Tools: STM32CubeMX & STM32CubeIDE, Keil uVision, Arduino IDE
- Hardware & Design: KiCad PCB Design, Proteus Simulator, Hardware Circuit Development & Testing
- IoT & Wireless: Bluetooth Serial Communication (HC-05), MIT App Inventor

Academic Projects

1. **Robo Car using AT89S52 + L298N + HC-05**

• Two-wheel robotic platform with dynamic PWM-based speed control
• Wireless Bluetooth handling with HC-05 module
• Powered by 12V 18650 battery system

2. **Smart LED Control with Bluetooth using ESP32 & MIT App Inventor**

• Real-time lighting control via wireless interface
• Designed custom MIT App Inventor communication system

3. **Traffic Light Controller using STM32 Nucleo-F401RE**

• Automated signal sequencing using timers
• Developed using STM32CubeMX/IDE

4. **Dual ±5V Regulated Power Supply using 7805/7905**

• Designed stable dual supply for analog circuits
• Focus on filtering and protection components

Education & Certifications

Bachelor of Technology – Electronics & Communication Engineering

College of Engineering and Management, Kolaghat | West Bengal, India
Graduation: 2027 from MAKAUT

Higher Secondary

Lakshya International: 2021-2023
CBSE: 74% (2023)
I pursued my Higher Secondary in Science from CBSE at Lakshya International School, Andhra Pradesh.
I had subjects of PCM, English & CS.

Secondary Education

Oriental Public School: 2016-2021
CBSE: 89.4% (2021)
I pursued my Secondary Education from Oriental Public School, Kalyani, Nadia.

My Certifications includes:

NPTEL: Electronic Systems Design – Hands-on Circuits and PCB Design with CAD Software
12-week course completion with strong assignment performance.

STRENGTHS

• Strong practical approach in electronics
• Quick learner & consistent performer
• Good teamwork and communication skills
• Focused on core electronics & embedded development

CAREER INTERESTS

Embedded Systems Development, Hardware-Firmware Co-Design, IoT Device Engineering

DECLARATION

I hereby declare that the above information is correct to the best of my knowledge.

Signature
Sreejan Das