

PROFESSIONAL SUMMARY

B.Tech Electronics & Communication Engineering student with project-based experience in embedded systems and IoT using ESP8266/ESP32. Proficient in microcontroller programming (AVR, PIC, ARM), PCB layout, and circuit simulation. Completed multiple automation and monitoring systems using Blynk, PLX-DAQ, and ThinkSpeak. Seeking an entry-level role in Embedded Systems or IoT development to apply hands-on skills in microcontroller integration and real-time data processing.

EDUCATION

- **B. Tech in Electronics & Communication Engineering**
Guru Jambheshwar University of Science & Technology (GJUS&T), Hisar
Expected Graduation: June 2026
 - **HS-CIT Certification in Information Technology**
Haryana Board of School Education & HKCL
Awarded July 2019 – Score: 91.15%
 - **Class 12th CBSE (April 2020 – March 2021)**
Montessori Convent Sr. Sec. School, Satnali
 - **Class 10th CBSE (April 2018 – March 2019)**
Montessori Convent Sr. Sec. School, Satnali
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TECHNICAL SKILLS

- **Programming:** C, Embedded C, Assembly, Verilog
 - **Microcontrollers:** Arduino UNO, ATmega8, ESP8266, ESP32, PIC16F877A, ARM Cortex-M4, ARM7
 - **Tools & IDEs:** MPLAB X, Arduino IDE, Proteus, LTSpice, ExpressPCB, Keil, PSpice, Visual Studio
 - **Concepts:** Embedded Systems, IoT, PCB Design, Circuit Design, Signal Processing, UART, SPI, I2C
 - **Soft Skills:** Technical presentation, Teamwork, Documentation
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PROJECTS

1. **Home Automation System using ESP8266 & Blynk**
 - Modeled a Wi-Fi-based automation system to control 4 household appliances via smartphone using Blynk app and ESP8266, improving user convenience by 90%.
2. **Temperature Monitoring System with ThinkSpeak**
 - Built a real-time temperature logger using DHT11 sensor and ThinkSpeak, updating data every 15 seconds for continuous monitoring.
3. **UART Communication Between Two ESP8266 Modules**
 - Implemented reliable UART communication with 9600 baud rate between 2 ESP8266 modules to exchange sensor data with <1% packet loss.
4. **Weather Monitoring with Arduino Uno**
 - Integrated 3 environmental sensors (DHT11, LDR, BMP180) to display temperature, light, and pressure with $\pm 2^{\circ}\text{C}$ accuracy.
5. **RFID Based Automatic Attendance System with PLX-DAQ**
 - Logged attendance of 30+ users automatically using RFID module and PLX-DAQ Excel interfacing.
6. **AC to DC Power Supply – PCB Design**
 - Simulated and built an AC to DC converter circuit in Proteus with final PCB layout ready for fabrication.
7. **Audio Amplifier Using BC547 – PCB Implementation**
 - Engineered a single-stage audio amplifier circuit (gain $\approx 100\times$) and fabricated a 5x5 cm PCB layout.

8. 4-bit Multiplier in CMOS Logic using LTSpice

- Simulated 4-bit binary multiplier circuit using CMOS logic gates with correct outputs verified for all 16 combinations.

TRAININGS

- **Embedded System Design with ATmega8**

Sofkon India Pvt. Ltd, New Delhi | Jun–Aug 2024

- Hands-on training in ATmega8 programming, peripheral interfacing, timers, and interrupts using Proteus and MPLAB X IDE.

- **Arduino and Arduino IDE**

Internshala Trainings | Feb–Mar 2024

- Learned embedded programming and real-time control using Arduino. Completed multiple automation-based tasks.

- **Embedded Systems Fundamentals**

Pantech AI, Online | Mar–Apr 2024

- Explored system architecture, microcontroller interfacing, and applications using PIC, ARM Cortex-M4, ARM7, and ESP8266.

CERTIFICATIONS

- HS-CIT (Haryana State Certificate in Information Technology)
- Embedded System Design (Sofkon India Pvt. Ltd)
- Embedded Systems (Pantech AI)
- Arduino & Embedded Systems (Internshala)

ACTIVITIES & WORKSHOPS

- **Project Exhibition Participant** – GJUS&T, Sept 2024
- **Anti-Ragging Awareness Event Volunteer** – GJUS&T, Oct 2024
- **Group Dance Performer, Swagatam 2024** (University Event) – GJUS&T, Oct 2024
- **EV Workshop Participant** – Autokriti, NIT Kurukshetra, Oct 2025
- **IoT Workshop Participant** – GJUS&T, March 2025
- **Founder & Manager** – Paper Curls (Educational Platform), Jul 2023

LANGUAGES

- Hindi: Native
- English: Working Proficiency

HOBBIES

- Travel
- Robotics
- Tech Blogging