

TOIBA JAN

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PROFESSIONAL SUMMARY

Electronics and Communication Engineering graduate with a solid understanding of analog and digital electronics. Currently working as an Apprentice Teaching Assistant, assisting in course teaching and laboratory sessions. Familiar with embedded systems and IoT concepts, with a focus on practical engineering applications

EDUCATION

Institute of Technology, University of Kashmir B.Tech in Electronics and Communication Engineering	2021–2025 CGPA: 7.87/10
Higher Secondary (12th) Govt.Girls Higher Secondary School Kothibagh	2019 Score: 72.2%
Secondary School (10th) Eves Garden Educational Institute	2017 Score: 81.4%

EXPERIENCE

Apprentice (Teaching and Lab Instructor) Institute of Technology, University of Kashmir	Sep 2025 – Present
<ul style="list-style-type: none">Assisting in teaching core electronics subjects and supporting student learning.Conducting laboratory sessions in microcontrolles and embedded systems,electronic measurement and instrumentation, digital, and control systems.Supporting students in circuit design, troubleshooting, and project development during implementation.	
STEM AI and Robotics Internship – Mentor	Jan 2026 – Feb 2026
<ul style="list-style-type: none">Mentored students during a short-term internship focused on STEM, AI, and robotics.Guided participants in basic concepts, project development, and hands-on activities.	

INTERNSHIPS

Prasar Bharti-Doordarshan Kendra Srinagar	Jan 2024 – Feb 2024
<ul style="list-style-type: none">Observed the working of broadcast and uplink systems, including satellite-based transmission setups.Gained insight into coordination among technical units for effective TV and radio broadcasting.	

AICTE-Shell Remote Internship – Artificial Intelligence

Dec 2024 – Jan 2025

Remote

- Developed an AI-based disease prediction system for early diagnosis of diabetes, heart disease, and hypertension.

Sure Pro-ED Trust – Cybersecurity and Ethical Hacking

Feb 2025 – Apr 2025

Remote

- Participated in hands-on cybersecurity training focused on system-level exploration and basic red-team tasks.
- Identified vulnerabilities in Windows-based systems and gained practical exposure to security concepts.

ACADEMIC PROJECTS

Hi-Tech Greenhouse for Honeybees Sustained Using Vertical Farming (Final Year Project)

- Designed an IoT-based smart greenhouse system using an ESP32-based PID controller for real-time environmental control.
- Integrated sensors and actuators for automated regulation of temperature, humidity, and light.
- Implemented real-time monitoring with threshold-based control and NTP-based polynomial mapping.
- Applied embedded systems and IoT concepts to develop a controlled environment for apiculture and vertical farming.

Dual Voltage Regulator with USB Output

- Designed a 12V and 5V dual-output regulated power supply with USB interface using KiCad.
- Performed schematic design and PCB layout for reliable power distribution.

5V Power Supply

- Designed a regulated 5V power supply circuit using EasyEDA for schematic capture and PCB design.
- Fabricated and assembled the circuit using through-hole components for hardware implementation.

Visitor Counter using 89C51 Microcontroller

- Developed an embedded system for automatic visitor counting using sensors and 89C51 microcontroller.
- Implemented real-time display using Embedded C and validated the design in Proteus.

EXTRACURRICULAR ACTIVITIES

Student Placement Coordinator

Department of ECE, Institute of Technology

SKILLS

Electronics: Circuit Design, PCB Layout, KiCad, EasyEDA, Arduino, ESP32

Tools: Arduino IDE, MATLAB, Kali Linux, AutoCAD, Cisco Packet Tracer, Wireshark

Programming: C, Python, Bash, MATLAB

Soft Skills: Problem Solving, Analytical Thinking, Project Management, Mentoring, Time Management

CERTIFICATIONS

Cisco Certified Network Associate (CCNA) – Routing and Switching

ICMS (NIELIT Accredited Institute)

LANGUAGES

English, Urdu, Hindi