

# Abhisam Sharma

STEM & Robotics Trainer | Electronics Engineer | STEM Mentor

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📄 GitHub: [github.com/projectavsm/Digital-Facial-Recognition-Attendance-System](https://github.com/projectavsm/Digital-Facial-Recognition-Attendance-System)

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## Professional Summary

Passionate STEM and Robotics Trainer with hands-on experience delivering Arduino, electronics, and robotics training to beginner and secondary-level students. Skilled in simplifying technical concepts into practical, project-based learning experiences that help students build confidence in STEM. Strong background in robotics competitions, embedded systems, sensor integration, and prototyping. Internship experience at Nepal Academy of Science and Technology (NAST) contributing to aerospace electronics systems. Currently working as a Full Stack Developer while continuing to mentor students in robotics and electronics.

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## Teaching & Training Experience

- Robotics and Electronics Trainer
  - Delivered hands-on robotics and Arduino training to beginner and secondary-level students
  - Conducted workshops on basic electronics, circuits, sensors, and microcontrollers
  - Guided students in building practical robotics projects using Arduino and Raspberry Pi
  - Mentored students in STEM problem-solving, project development, and robotics competitions
  - Designed beginner-friendly learning sessions focused on practical understanding rather than theory only
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# Core Skills

## STEM, Robotics & Electronics:

- Arduino Programming
- Raspberry Pi Development
- Embedded Systems
- Basic Electronics & Circuit Design
- Sensor Integration
- Robotics Prototyping
- Hardware–Software Integration

## Programming & Development

- Python
- JavaScript
- Full Stack Web Development
- API Integration
- Database Management

## Teaching & Mentoring

- STEM Training for Beginners
- Arduino Workshops
- Robotics Training
- Basic Electronics Instruction
- Student Mentoring
- Project-Based Learning

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# Professional Experience

## Electronics Engineering Intern

### Nepal Academy of Science and Technology (NAST)

- Assisted in the **design and development of a Remote Ignition System**
  - Contributed to **Flight Computer development** for aerospace-related projects
  - Worked with electronics hardware, sensors, and embedded systems
  - Collaborated with engineers on testing, troubleshooting, and system improvement
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## **Full Stack Developer at Smart Web Care Center**

- Develop web applications using modern full-stack technologies
  - Integrate frontend interfaces with backend services and APIs
  - Work on database systems, application architecture, and deployment
  - Support software solutions involving hardware and software integration
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## **Technical Projects**

### **Raspberry Pi Facial Recognition Attendance System**

- Built an automated attendance system using Raspberry Pi and facial recognition
- Implemented computer vision for identity detection and attendance logging
- Integrated hardware and software for real-time student attendance management

### **Electronic Voting Machine (Arduino Uno)**

- Designed and developed a microcontroller-based voting system using Arduino Uno
  - Implemented secure vote counting and a button-based user interface
  - Built and tested complete hardware setup for practical demonstration
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## **Robotics Community Involvement**

### **Robotics Club Member - RoboKath**

#### **Project Lead**

- Active participant in robotics development and collaborative technical projects
  - Participated in multiple robotics competitions and innovation events
  - Worked on robot design, fabrication, testing, and manual control systems
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## **Key Achievements**

- 1st Place - Robo Sumo (EEPEX 2025, Kathmandu University)
  - 1st Runner-up - Robo War (Locus 2025, Pulchowk Campus)
  - 1st Runner-up - Robo Soccer (Locus 2025, Pulchowk Campus)
  - 1st Position - Robo Football (KEC Lite Kantipur, 2024)
  - 1st Runner-up - Robo Race (Orbit Engineering Expo 2.0, 2024)
  - Multiple robotics competition awards across 2024–2025
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## **Education**

**BE in Electronics Engineering**

**Kathford College of Engineering and Management**

Tribhuvan University (TU)

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## **Interests**

- Robotics Education
- STEM Innovation
- Embedded Systems
- AI and Computer Vision
- Student Mentorship
- Practical Engineering Learning