

Srijan Khadka

Bhaktapur, Nepal

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EDUCATION

Kathford International College of Engineering, Tribhuvan University, Nepal

2020-2025

Bachelor of Engineering in Electronics, Communication, and Information Engineering

EXPERIENCE

EShikshalaya Edutainment - Nepal

Jan 2025 – May 2025

Chief Executive Officer

- Started as a Volunteer → Chief Trainer → Head of IoT → CEO.
- Launched the **EShikshalaya Innovation Kit**, an educational robotics and electronics kit for school-level STEM learning.
- Designed and led the **SEE Success Sutra** course, a structured academic support program for SEE (Grade 10) students.
- Managed and executed a 15-week national GK Quiz competition with an NPR 5 Lakh prize pool.
- Oversaw the development of online learning platforms and trained 1500+ students in technical education.

RoboKath - Kathford International College of Engineering , Nepal

May 2023 – Apr 2024

Project Supervisor and Mentor

- Led training programs for 50+ students on robotics fundamentals and embedded system design.
- Supervised hands-on projects using Arduino, Raspberry Pi, and sensor-based automation.
- Mentored junior trainers and managed team coordination for technical workshops and competitions.

The BotMinds Robotics Team - Nepal

Jan 2022 – Present

Founder & Robotics Engineer

- Founded and led a competitive robotics team that secured **55+ national and international titles**.
- Represented Nepal at IIT Bombay, IIT Patna, and other top institutions, winning events like Robo Sumo, Robo Soccer, and Robo War.
- Promoted STEM education through outreach programs, inspiring over 500 students across Nepal.

PROJECTS

Deep Learning Based Real Time Waste Segregation Using Robotics Arm

Aug 2024 – Mar 2025

Final Year Engineering Project

- Designed and implemented a real-time smart waste segregation system using **YOLOv9** for object detection.
- Used **Raspberry Pi 4B** for image processing and classification, and **Arduino Uno** to control a robotic arm.
- Integrated conveyor belt mechanism for automated waste intake and sorting.

Surveillance and Rescue Rover

Aug 2023 – Mar 2024

3rd Year Minor Project

- Developed a remote-controlled rover with live video streaming using a **Raspberry Pi and a camera module**.
- Enabled surveillance and monitoring through a web-based interface over Wi-Fi.
- Integrated motion detection and obstacle avoidance features using ultrasonic sensors.
- Demonstrated applications in security, disaster response, and reconnaissance.

ACHIEVEMENTS

- **Secured 55+ robotics titles** across 30+ national and international competitions
- **Recipient of the Golden Jubilee Scholarship** from the **Indian Embassy in Nepal** for academic excellence during undergraduate studies.

SKILLS

Programming Language: Python, C/C++, JavaScript

Web Development: HTML, CSS, JavaScript, Tailwind CSS

Cloud: AWS

Machine Learning & CV: YOLO, OpenCV, TensorFlow, Scikit-learn

Databases: PostgreSQL, MySQL

Embedded Systems: Arduino Uno, ESP32, Raspberry Pi

Design & Prototyping Tools: KiCAD, Tinkercad, Proteus

CERTIFICATIONS

- **AWS Academy Graduate** – *AWS Academy Cloud Foundations Issued by Amazon Web Services (AWS)* [link](#)
- **Relational Database Certification** – *FreeCodeCamp.org* [link](#)
Covered SQL, data modeling, schema design, and relational database principles.
- **CanSAT Training Program** – *NAST Nepal (Trained by Orion Space)*
Hands-on experience with telemetry systems, sensor integration, and satellite payload simulation.
- **Basic Electronics Training** – *RoboKath, Kathford International College of Engineering*
Focused on circuit theory, breadboarding, and electronic component handling.
- **Arduino Training** – *RoboKath, Kathford International College of Engineering*
Covered embedded C programming, sensor interfacing, and microcontroller-based system design.