

# 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 (76.19%)

## EXPERIENCE

EShikshalaya Edutainment - Nepal

Jan 2025 – May 2025

### Chief Executive Officer

- Progressed from Volunteer to CEO through roles as Chief Trainer and Head of IoT.
- 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 an online learning platform with 1500+ students.

RoboKath - Kathford International College of Engineering , Nepal

May 2023 – Apr 2024

### Project Supervisor and Mentor

- Led training programs for 100+ 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

### Co-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 in robotics competitions.
- Promoted STEM education through outreach programs, inspiring over 500 students across Nepal.

## ACADEMIC & TECHNICAL 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.

**Technologies:** YOLOv9, Python, OpenCV, Raspberry Pi, Arduino

**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.

**Technologies:** Raspberry Pi, Python, Arduino

## CERTIFICATIONS

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- **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.

## SKILLS

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- **Programming Language:** Python, C/C++, JavaScript  
**Web Development:** HTML, CSS, 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

## ACHIEVEMENTS

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- **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.