

# GOPAL POKHAREL

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## EDUCATION

### Northern Kentucky University

Bachelor of Science in Mechatronics Engineering

Minor in Computer Science

Relevant Coursework: AutoCAD, Object Oriented Programming in Java, Python, Circuit Analysis, Advanced Physics-2, Differential equations, Research paper writing and documentation, Communication.

Highland Heights, KY

May. 2025

## EXPERIENCE

### Robotic Arm, Northern Kentucky University

*Mechatronics Department*

Highland Heights, KY

Jan. 2022 – Nov. 2022

- Contributed to the development of a mind-controlled prosthetic arm project, utilizing Arduino, Raspberry Pi, Cortex API, and IoT devices.
- Proficient in documenting project progress and maintaining project records, including developing technical reports and user manuals.

### Admissions specialist, Northern Kentucky University

*Admissions Department*

May 2022 – Current

- Used SAP, perspective content and other services to check the application related documents and communicate with prospective students.
- Handle customer service through phone calls with cisco and work in a team with admissions counselors to provide accurate data and help smoothen the process of applying to college.
- Manage tour booking, supervise tours, and help current students with their advising.

## PROJECTS

### Used AutoCAD to design houses and park for a client in Nepal

Nov. 2022 – Current

*Mangol Engineering Consultancy*

- Design and Implementation of real-life pencil-paper drawings into AutoCAD, paid work for clients.
- Designed new originals for landscaping of my own house.

### Designed a prototype motion detector camera using Raspberry Pi and Python

*Individual project*

Aug. 2022– November. 2022

- Developed a motion detection system using a Raspberry Pi and PIR sensor to trigger the Pi Camera module.
- Implemented automation using Python to capture images if motion was detected for more than 5 seconds.
- Created a web server using Flask to upload and display captured images in real-time.

## INVOLVEMENT

Presidential Ambassador / Member

Aug. 2022 – Current

NKU Campus Recreation | Membership Specialist

Aug. 2022 – Dec 2022

NKU University Learning Center | Tutor

Jan. 2022 – May2022

## AWARDS

International Merit Scholarship of \$7500 a year

2021 – Current

Ratcliff Scholarship recipient

Aug. 2022

SOS Hermann Gmeiner Full-ride Scholar, SOS Bhaktapur, Nepal

2017-2019

Student of the year, Eden Garden School

2016

## SKILLS

**Technical:** Raspberry pi, AutoCAD, Java, Python, Proteus, Arduino, Microsoft Office 365, Customer service, Phone etiquette, Bootstrap, Troubleshooting Computer Issues, Communicator and Learner

**Language:** Fluent in Nepali, English, Hindi, Sanskrit, workable proficiency German