Oscar Poudel

Ph.D. in Civil Engineering specialization in Construction Automation with AI and Robotics Systems +1 201-726-0613

opoudel27@gmail.com

https://oscarp.com.np

Newark, NJ, 07032

TO RESEARCH INTEREST

- Human Robot Interaction for construction robotics
- Structural Health Monitoring using ubiquitous systems
- AI (LLMs/DL/RL) for Civil Engineering application and system optimizaiton

EDUCATION

2017 - 2022 PhD: Civil Engineering

New Jersey Institute of Technology, Newark, USA

Grade: 4/4

2017 - 2022 Bachelors: Civil Engineering

Institute of Engineering, Pulchowk Campus, Lalitpur, Nepal

percentage: 82%

2014 - 2016 High School/+2: Science (Biology)

St. Xavier's College, Maitighar, Kathmandu

percentage: 86%

TECHNICAL SKILLS

 Modeling and Design: ETBAS, SAP, SAFE, PERFORM3D, Robot, RCDC, Idea Statica, Civil 3D, OPENSEES, Grasshopper

Drafting, rendering and BIM: Revit, Autocad, Sketchup, Lumion

• Mapping: QGIS, SNAP

• Project Management: Microsoft Project, Primavera

• General Purpose: Microsoft Office, Windows and Linux systems

• Programming: Python (software automations, Al, ML, Data science etc.),

MATLAB/R (general computing, Plotting), JAVASCRIPT (Websites, Webapps,

Apis etc.), FLUTTER (Android apps), C/C++, SQL (Databases)

RESEARCH AND PROJECT

2022 Senior Year Project

 Performed Modelling and Structural Analysis of a 8 storied commercial building using ETABS

 Carried out seismic resistant design and prepared structural drawings of different elements using AutoCAD (Using both IS as well as NBC standards)

2022- Seismic performance study in irregular Building (Ongoing)

2022- Earthquake Recovery Study using RS and GIS techniques (Ongoing)

2021-2022 Designed and developed website for <u>CESS - Nepal</u>

2019 Conducted a energy consumption survey in Myagdi District for Addon

Engineering Consultancy

PROFESSIONAL EXPERIENCE

2023(Sep)- New Jersey Institute of Technology

• Research Assistant/ Teaching Assistant

2022 (Sep) -2023(May) Hatemalo Engineering & Construction Pvt. Ltd.

• Structural Engineer

2022 (Aug-Nov) MRB & Associates, Jamal

Junior Structural Engineer



2021 - 2022 Secretary of 15th committee of Civil Engineering Student's Society

- Organized and moderated several webinars and training programs
- Organized and Managed numerous competitions

PROFESSIONAL CERTIFICATE

Nepal Engineering Council (Category "A" 32803)

2021 - American Concrete Institute

Student Member