

RAMIN OSTI

CIVIL ENGINEER AND ERASMUS SCHOLAR

Address: Calle Los Naranjos 14,08906, Barcelona, Spain
Phone: +34 613 82 90 73
Email: ramin.osti@gmail.com
LinkedIn: www.linkedin.com/in/raminosti

DOB: 28/01/1997
Passport: PA0940742
NIE: Z2933090C
Nationality: Nepalese

ABOUT ME

Civil engineer and Erasmus Mundus scholar specializing in AI-driven bridge inspection, digital twins, and infrastructure risk assessment. Experienced in structural analysis, BIM integration, and smart monitoring technologies, with a strong focus on research and innovation in resilient infrastructure systems.

EDUCATION

Erasmus Mundus International Joint Master's in Risk Assessment and Management of Civil Infrastructures (NORISK EMJM)

Oct 2024 - Sep 2025

Universidade do Minho, Portugal & Universitat Politècnica de Catalunya, Spain

- Completed advanced coursework in risk analysis, reliability, probabilistic modeling, and digital monitoring of civil infrastructures, emphasizing analytical and modeling approaches to infrastructure risk management.
- Integration Project on "Enhancing resilience and sustainability of cultural heritage: Palace of the Dukes of Braganca"
- Dissertation on "Artificial Intelligence based bridge inspection protocol using multispectral, thermal, and drone vision automated fusion with digital twins"

Bachelor of Engineering in Civil Engineering

Nov 2015 - June 2020

Kathmandu Engineering College - Tribhuvan University, Kathmandu, Nepal

- Major in Civil Engineering.
- Final Year Project on "Seismic analysis and structural design of multi- storied reinforced cement concrete commercial building"

Higher Secondary Education (+2 Level)

Aug 2013 - July 2015

St.Xavier's College, Kathmandu, Nepal

- Major in Science.

PUBLICATIONS

Osti, R. "Intelligence-Based Language Analysis for Integrating Bridge Inspection Protocols with BIM." [Manuscript in Preparation] Universitat Politècnica de Catalunya.

Status: Work in Progress

NORISK EMJM Master Dissertation:

Status: Published

Osti, R. (2025). "Artificial Intelligence based bridge inspection protocol using multispectral, thermal, and drone vision automated fusion with digital twins." Universitat Politècnica de Catalunya.

<https://hdl.handle.net/2117/443651>

NORISK EMJM Integration Project:

Osti, R. et al. (2024). "Enhancing resilience and sustainability of cultural heritage: Palace of the Dukes of Braganca." Universidade do Minho

Status: Unpublished
| Collaborative Project

Bachelor Final Year Project:

Osti, R. et al. (2019). "Seismic analysis and structural design of multi-storied reinforced cement concrete commercial building." Tribhuvan University

Status: Unpublished
| Collaborative Project

CERTIFICATIONS

- Chartered Engineer / Stage 1 Competency Assessment (ANZSCO: 233211)**
Engineers Australia | ID: 9510955 Status: Awarded (Competent) | Date: April 2024
- Civil Engineer License (Category A)** Nepal Engineering Council | License No: 25865 (2021 - Present)

WORK EXPERIENCE

Civil EngineerDec 2023 - Oct 2024

China National Aero Technology International Engineering Corporation, Kathmandu, Nepal

- Managed airport apron,taxiway construction (soil filling, asphalt, RCC, stabilization), ensuring quality, safety, and schedule optimization.
- Used AutoCAD, Civil 3D, Lumion, and SketchUp for modeling and visualization, coordinating with clients and consultants

Civil EngineerJun 2022 - Jul 2023

Infrastructure Development Office, Nawalparasi East, Nepal

- Conducted site assessments and risk evaluations per Nepal Building Code and Department of Roads, Nepal standards, ensuring compliance.
- Performed cost analysis, supervised construction of roads, bridges, culverts, and buildings, ensuring design adherence and community engagement.

Civil EngineerJul 2021 - May 2022

Liberty Builders Nepal Pvt. Ltd, Bharatpur, Chitwan, Nepal

- Designed/analyzed structures with AutoCAD per Nepal Building Code, selected materials, and estimated costs.
- Supervised construction, used Lumion/Sketchup for visualization, and ensured client-aligned project execution.

Civil EngineerNov 2020 - Jul 2021

District Level Project Implementation Unit, National Reconstruction Authority, Nawalparasi East, Nepal

- Led 9-months Baulaha Khola RCC Bridge construction and contributed to monasteries and RCC building projects, showcasing project management and structural engineering expertise.
- Played role in procurement and e-bidding strategies for the reconstruction of Nepal Earthquake 2015 affected infrastructure, ensuring transparent and efficient project execution.

InternJul 2020 - Nov 2020

Iconic Engineering Consultancy, Nawalparasi East, Nepal

- Assisted senior engineers in CAD design/drafting for buildings per municipal specifications and collaborated on detailed CAD drawings.
- Conducted site visits/surveys using total station, gaining construction supervision experience.

SKILLS

- Building Information Modelling | Convolutional Neural Network |Structural Analysis | Structural Health Monitoring | Risk & Resilience Management |3D Modelling | Analytical Problem-Solving | Strategic Communication | Data Integration & Management
- Software:** Revit | Dynamo | Python | AutoCAD | ETABS | SAP2000| MS Project | Primavera P6 | Lumion | SketchUp | MS Office Suite
- Languages:** Nepali (Native)| English Proficiency Test [PTE Academic | Overall Score: 70 | Listening: 69 | Reading: 71 | Speaking: 69 | Writing: 70| Aug 13,2023] | Spanish (A1)

PARTICIPATION ON EVENTS

- NORISK Webinar Graduation CeremonySep 30, 2025
- NORISK Workshop, Venice, ItalyJun 4, 2025 - Jun 6, 2025
- NORISK Integration Week, Universitat Politècnica de Catalunya, SpainNov 25, 2024 - Nov 29, 2024

REFERENCES

- Available upon request