



Pramod Rai

Candidate for Structural Engineer

PERSONAL INFORMATION

pramodwrai@gmail.com

+66-064-940-7662

pramotive.wordpress.com

linkedin.com/in/pramod-rai

1994-11-02

SOFTWARE

• CSI-SAP2000, CSI-Etabs, SAFE, STAAD.Pro, RAM Connections, Adapt-PT/RC, Adapt-Builder, etc.

• Abaqus

• AutoCAD, Revit, Google Sketch-Up

• MS-Word, MS-Excel, MS-Powerpoint

• Adobe-Photoshop, Adobe-illustrator, etc.

PROGRAMMING LANGUAGE

• Python, - C++, C, Fortran

OTHER SOFT SKILLS

• Proposal and Report writing

• Graphics design

• Blogging

MEMBERSHIP

Nepal Engineering Council

• Category "Civil A"-1331

SYNOPSIS

- Structural design engineer, based in Thailand.
- Masters in Structural Engineering with 3 years of experience in building construction industry: RC, PT and Steel structures.
- Familiar with FEM based software and analysis/design standards including ACI, AISC, BS/EN and IS codes for buildings.
- Main author of two research articles and co-author of a conference paper.
- Interested in performance based design of structures, finite element analysis, and application of computer programming in civil engineering.

EDUCATION

2017-2019 **M. Eng. in Structural Engineering** | CGPA: 3.69/4 |
Bangkok, Kasetsart University
Thailand

• Scholarship awarded for graduate studies by Faculty of Engineering, Kasetsart University

• Published master's thesis work in an international journal as the main author

2011-2015 **B. E. in Civil Engineering** | CGPA: 3.58/4 |
Dhulikhel, Kathmandu University
Nepal

• Scholarship awarded for undergraduate studies by Kathmandu University

• Published bachelor's final year project work in an international conference as a co-author

2009-2010 **HSEB 10+2 in Science** | 82% |
Kathmandu, Kathmandu Don Bosco College
Nepal

• Full scholarship awarded by the college under merit list

• Received Mahatma Gandhi Scholarship for 2009-2010 funded by the Government of India

WORK EXPERIENCE

2019-Present **Structural Design Engineer**
Bangkok, Span systems International Co.
Thailand

• Structural analysis/design of global structures: RC and Steel structures based on Equivalent Static Method, Response Spectrum Method, Pushover Static Analysis, Time History Analysis, and Performance-based Analysis.

• Structural analysis and design of structures based on construction sequence.

• Structural analysis and design of PT and RC slabs, flat slabs, and composite slabs.

• Preparation of calculation sheet for design of structural members: columns, beams, staircases, slabs, pile caps, isolated and combine footings, etc. adopting various codes.

VOLUNTEERING

Full-time Tutor | 2015-2017

Muskan Sewa Nepal

- Tutoring and Facilitating orphan children in academic and extra-curricular activities.
- Organizing various campaigns for financial support of the orphanage.

TGG-Mentee | 2014

WWF-Nepal

- Reporting stories of various emerging entrepreneurs in Kathmandu valley, Nepal.

President | 2013

Kathmandu University Youth Red-cross Circle

- Organizing health camps in various rural areas of Nepal.
- Organizing blood donation campaigns for blood collection in national blood bank in critical situations.
- Leading the library establishment campaigns in various government schools.
- Coordinating various personality development events for university youths.

Jan-May
2019
Bangkok,
Thailand

Teaching Assistant

Kasetsart University

- Facilitated undergraduate students in Structural Analysis-I academic course
- Assisted the course instructor in various classroom activities adopting flip-classroom approach

2015-2017
Kathmandu,
Nepal

Civil Engineer

East West Engineering Service Pvt. Ltd.

- Structural analysis/design of residential buildings using SAP2000, Etabs, and STAAD.Pro.
- Rate analysis, cost estimation, BoQ and tender document preparation.
- Site survey, supervision, and monitoring of construction works
- Drafting, drawing municipal permit drawings using AutoCAD
- Visual inspection, topographic survey of more than 100 public school buildings in 6 different districts of Nepal after the Gorkha Earthquake 2015

2015-2016
Kathmandu,
Nepal

Consulting Engineer (Part-time)

Karunamaya Foundation Nepal

- Topographic survey of construction sites
- Periodic supervision of the construction sites

Mar-April
Kathmandu,
Nepal

Intern-Civil Engineer

Sanima Mai Hydropower Limited

- Inspection of construction site and quantity estimation of intake canals of the hydropower project

Publications AND THESIS

Publications:

2019/20

- Rai, P. and Phuvoravan, K., 2019. **Shear Behavior of RC Deep Beam Strengthened by V-Shaped External Rods.** International Journal of Engineering and Technology Innovation, 10(1), p.41.

- Rai, P., 2020. **Nonlinear Finite Element Analysis of RC Deep Beam using CDP Model.** Advances in Technology Innovation (*Accepted: Online version in production*)

2015/16

- Pradhan, P.M., Adhikari, R., Aryal, A., Dangal, A., Duwadi, S., Ghale, D.R., Pandey, S. and Rai, P., **Retrofitting Design of Kathmandu University Staff Quarter Block 32 'A' after Gorkha Earthquake 2015.**

Master's Thesis:

2017-2019
Bangkok,
Thailand

- Finite Element Analysis of Reinforced Concrete Deep Beam Strengthened in Shear Using V-Shaped External Steel Rod system, 2019, Kasetsart University, Thailand.