

SHABNAM KHANAL

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ACADEMIC CREDENTIALS:

- M.S. in Civil Engineering, West Virginia University, USA (Expected June, 2020) **GPA: 3.90 / 4.0**
- B.S. in Civil Engineering, Pokhara University, Nepal (2016) **GPA: 3.83 / 4.0**

AREAS OF EXPERTISE:

- Analysis of steel bridges (Developed an Excel tool for the analysis of a 3-span continuous straight composite steel I-girder bridge based on AASHTO LRFD bridge design specifications)
- Nondestructive testing of structural members (Ground Penetrating Radar, Infrared Thermography, Ultrasonic Techniques, Impact-echo and Digital Tap hammer)
- Analysis and design of buildings and bridges (FRP composite, reinforced and prestressed concrete, steel)
- Design of timber structures

TECHNICAL SKILLS:

- Design and Analysis Tools: ANSYS (Mechanical APDL), SAP2000, ETABS, RISA-2D/3D
- Drafting and Modelling Tools: AUTOCAD, SketchUp
- Microsoft Tools: MS Word, MS Excel, MS Power Point

PROFESSIONAL EXPERIENCE:

A. GRADUATE TEACHING ASSISTANT: West Virginia University (August 2018 to December 2019)

- Assisted juniors for the coursework on Structural Analysis.
- Assisted in conduction of various structural lab experiments.

B. ABET ASSISTANT: West Virginia University (May 2019 to June 2019 / January 2020 to present)

- Assisted ABET Co-ordinator in ABET assessment for all CE undergraduate courses.
- Performed data analysis of student performance in CE courses for the assessment.

C. CIVIL ENGINEER: D.B. Multi Engineering Consultancy (P.) Ltd., Nepal. (January 2017 to June 2018)

Projects:

1. Detailed Design, Drawing and Estimation of *People's Dental Hospital Building*.
2. Preparation of Master Plan, Architectural Design, Structural Design, Drawings, Cost Estimate, and Bidding document preparation of *Main Hospital Building (KMC)*, *Dr. P.N. Pant Memorial Building*, *Basic Science Block*, and *New Proposed Hospital Building*.

Responsibilities:

- Structural modelling, analysis and design of the buildings.
- Preparation of detailed structural drawings.
- Preparation of cost estimate.

3. *Seismic Vulnerability Assessment and Retrofit Design of Central Law Library, Nepal.*

Responsibilities:

- Site visit and damage assessment.
- Preparation of as-built drawings.
- Structural modelling of the building.
- Cost-estimation and rate analysis.

4. Assisted in the preparation of proposals and other procurement related documents (RFP/LOI).

AWARDS and ACTIVE ORGANIZATIONS:

- Appalachian Underground Corrosion Short Course Scholarship 2019 – WVU
- Structural Engineering Institute Graduate Student Chapter - WVU (former Secretary, current Vice-President)
- Chi Epsilon Civil Engineering Honor Society - WVU (Marshal)

References available upon request