

Ranjeet Thakali, E.I.T

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Summary

- Enthusiastic and adventurous civil engineering graduate student with two plus years of professional experience in the field of Civil Engineering
- One plus year of experience in the core water resources field
- Excellent writing and communication skills

Education

Southern Illinois University Carbondale, Carbondale, Illinois **May 2017**
Master of Science in Civil Engineering (Water Resources Engineering) **GPA 4.0/4.0**

- **Thesis:** “*Management of stormwater infrastructure in the changing climate.*”
- **Relevant coursework:** Hydrologic Analysis and Design, Advanced Hydraulic Design, Geographic Information Systems, Modeling of hydrosystem, Groundwater Hydrology, Water Quality Modeling.

Tribhuvan University, Institute of Engineering, Nepal **December 2012**
Bachelor of Science in Civil Engineering **GPA 3.6/4.0**

Professional Experiences:

Graduate Teaching and Research Assistant
Southern Illinois University Carbondale **August 2015 to Present**

- Responsible for grading tests and assignments of over 60 students for Fluid Mechanics (ENGR 370) under Dr. Bruce A. DeVantier
- ENGR 370 topics include open channel and pipe flow
- Graduate student researcher under Dr. Ajay Kalra
- Involved in the preparation of different proposal and report writing for the academic research

Design Engineer

Hydro Solutions Engineering Consultant P. Ltd., Nepal **December 2013 to July 2015**

- Member of Lower Modi Khola Hydroelectric Project (20 MW)
 - Responsible for Hydrology and Hydraulic design of hydropower components, technical drawing and drafting, coordination with contractors and clients.
- Member of Lower Charnawati Hydroelectric Project (6.4 MW.)
 - Responsible for preparation of a feasibility study, preparation of reports, Hydrology and Hydraulic design

Civil Engineer

Destiny Builders & Engineering Associates Pvt. Ltd., Nepal **December 2012 to November 2013**

- Lead engineer Kathmandu Bhaktapur road extension project
- Responsible for supervision of an ongoing construction of overhead pedestrian bridges, coordination with consultant, preparation of progress reports, running bills and detail drawings, and estimation of cost/quantity

Publications

- Thakali, R., Kalra, A., & Ahmad, S. (2016). Understanding the Effects of Climate Change on Urban Stormwater Infrastructures in the Las Vegas Valley. *Hydrology*, 3(4), 34; doi:10.3390/hydrology3040034
 - Assessment of existing stormwater infrastructure in the future climate using climate model data and HEC-HMS
- Ghimire, G. R., Thakali, R., Kalra, A., & Ahmad, S. Role of Low Impact Development in the Attenuation of Flood Flows in Urban Areas. In *World Environmental and Water Resources Congress 2016* (pp. 339-349) <http://dx.doi.org/10.1061/9780784479858.035>
 - Implementation of low impact development techniques in a small urban watershed using HEC-HMS, HEC-GeoHMS and EPA SWMM

Research Projects:

Graduate projects:

- Floodplain mapping using HEC-RAS and ArcGIS: “*Flood Risk Assessment Using the Updated FEMA Floodplain Standard in the Ellicott City, Maryland, United States*” (Submitted to EWRI 2017 proceeding)
 - Inundation mapping as per the updated FEMA Floodplain Standard in the Patapsco River near Ellicott City, Maryland, United States

- Lead member of research “Assessment of Vulnerability to Climate Change Effects on City of Las Vegas Urban Stormwater Infrastructure”: presented at AGU Fall Meeting 2016
 - A part of the Thriving Earth Exchange program: work collaboration between City of Las Vegas and SIU Carbondale
 - Available online: http://thrivingearthexchange.org/wp-content/uploads/2017/01/Poster_AGU_Final.pdf

Undergraduate projects:

- Pre-feasibility Study of Daram Khola-A Hydroelectric Project
 - Hydrological calculation, hydraulic design of hydropower components, and preparation of report

Computer Skills:

- Proficient and resourceful in hydrological and hydraulic modeling using HEC-HMS, HEC-GeoHMS, HEC-RAS, HEC-GeoRAS, SWMM, and GIS
- Handful experience with TR55, HY8, Flow master, AutoCAD, Civil3D, MS Office, MATLAB

Presentation at conference:

- Poster presentation at World Environmental and Water Resources Congress (EWRI), West Palm Beach, 2016
- Oral presentation at Center for Undergraduate Research and Creative Activities (CURCA), SIU, 2016
- Poster presentation at 22nd Annual Mid-America Environmental Engineering Conference (MAEEC), SIUE, 2016

Honors and Awards:

- Recipient of Diploma and Undergraduate Fellowships by Government of Nepal at Tribhuvan University
- Recipient of Teaching and Research Assistantship at SIU Carbondale under Dr. Ajay Kalra
- Runner up at the oral presentation CURCA 2016 organized by Center for Undergraduate Research and Creative Activities, SIU, Carbondale

Professional Affiliation:

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| • American Society of Civil Engineers | 2015 - Present |
| • American Geophysical Union | 2016 - Present |
| • Nepal Engineering Council | 2013 - Present |

Available date: 4/25/2017