Sudan Pandey

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CV Date: 09/17/2024

EDUCATION

Ph.D., Structural Engineering, University of Arizona, 2025

M.S., Structural Engineering, Asian Institute of Technology, Thailand, 2017

B.E., Civil Engineering, Tribhuvan University, Nepal, 2010

EXPERIENCE

2018- 2020 Project Engineer, AIT Solutions, Thailand

- Reviewed the structural system and developed the performance-based evaluation criteria, including seismic design methodology, seismic performance goals, acceptance criteria, mathematical modeling, and simulation based on various standards and guidelines.

2017-2018 Wind and Structure Engineer, AIT Solutions, Thailand

- Conducted three different type of wind tunnel tests: High Frequency Force Balance (HFFB) using rigid model and force sensor, Cladding pressure test using rigid model and pressure sensors, and Pedestrian level wind speed test using Irwin probes.

2015 Civil Engineer, ERMC Pvt. Ltd. Nepal. Responsible for reconnaissance of national highway bridge

HONORS AND AWARDS

- Received Nepal Bidhya Bhusan 'Kha' – Government of Nepal's highest award conferred for academic excellence in master's degree, 2018

- Awarded with "His Majesty The King's Scholarships" for master's degree in structural engineering at AIT, 2015-2017

- Awarded with regular scholarship by Tribhuvan University for a bachelor's degree in civil engineering, 2010-2014

PUBLICATIONS

Google Scholar: https://scholar.google.com/citations?user=3by7zkIAAAAJ&hl=en

Journal Publications

Bokhari, I., Pandey, S., & Fleischman, R. B. (2025, April). Experimental evaluation of welded interfaces between steel castings and round HSS for building construction. In Structures (Vol. 74, p. 108521). Elsevier.

Conference Publications

1. Pandey S., Fleischman R., Sause R., Ricles J., Uang CM. (2022). Behavior of Seismic Collectors in Steel Building Structures. 12th National Conference on Earthquake Engineering.

2. Najam, F., Joshi S., Pandey S., Vasanthapragash, N., & Warnitchai, P. (2020). A Response Modification Analysis (RMA) Procedure to Determine Nonlinear Seismic Demands of High-Rise RC Shear Wall Buildings. 17th World Conference on Earthquake Engineering, 17WCEE.

3. Pandey, S., Warnitchai, P., Vasanthapragash, N., & Najam, F. (2017). Development of modal hysteretic model for the seismic response analysis of tall buildings with RC shear wall. In Proceedings of the 7th Asia Conference on Earthquake Engineering.

PRESENTATIONS

- "Wind Tunnel Testing," 8th Joint Student Seminar on Civil Infrastructure, Asian Institute of Technology, Thailand, 12-13 September 2019.
- "Overview of Large-Scale Testing of Steel Seismic Collectors in Steel Building Structures," ATLSS Engineering Research Center at Lehigh University, 13 November 2024.
- "Use of NHERI Facility to Understand the Behavior of Seismic Collectors in Steel Building Structures," ATLSS Engineering Research Center at Lehigh University, 25 June 2025.

TEACHING EXPERIENCE

Course #	***Title***	***Term***	***Enrollment***
CE 389	Materials Testing Laboratory	FALL 2022	26
CE 389	Materials Testing Laboratory	SPRING 2023	36
CE 214	Statics	SUMMER 2023	20
CE 214	Statics	SUMMER 2024	17
CE 214	Statics	SUMMER 2025	16

TEACHING ASSISTANT EXPERIENCE

Course #	***Title***	***Term***	***Enrollment***
CE 333	Steel Design	FALL 2020	35
CE 438	Behavior of Building Systems	SPRING 2021	36
CE 214	Mechanics of Solids	SUMMER 2021	17
CE 214	Statics	FALL 2021	69
CE 214	Statics	SPRING 2022	37
CE 214	Statics	FALL 2023	90

VOLUNTEERING

- Rapid Visual Assessment of Buildings after the Gorkha Earthquake 2015, Nepal