Shriram Natarajan

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LinkedIn:**Shriram Natarajan**
Vancouver, BC

Education

Sep 2019 - Dec 2020
Master of Engineering
Civil Engineering
The University of British Columbia

Graduated in Structural and Earthquake Engineering with extensive knowledge on the seismic response, seismic design of concrete, masonry, steel, and wood structures and their design codes

Sep 2015 - Apr 2019
Bachelor of Engineering
Civil Engineering
PSG College of Technology, India

Skills

Design Tools : ETABS, SAP2000, Perform-3D, S-Concrete, SAFE, RISA-3D, Abaqus AutoCAD, Revit

Others : Microsoft Office Suite Teamwork, Time Management Quick learning, Multi-tasking

Technical Knowledge :
Structural Modeling
Nonlinear Analysis
Seismic Design
Project Management
Wood Design
Reinforced Concrete Design
Steel Design
Construction Review
Planning and Drafting

Professional Development

Seismic Strengthening
SEABC
Jan-Apr 2020

Project Planning and Control
Indian Institute of Technology
July-Sep 2017

AutoCAD
CADD Centre
Jul-Sep 2016

Experience

Jan'21-Present **Structural EIT** — **HPC Designs Inc., Vancouver**

- Carried out detailed review of Risa 3D models developed for response spectrum analysis of an offshore conveyor structure
- Built the model in SAP2000 incorporating the Soil-Structure Interaction in Liquefied state and performed Nonlinear time history analysis
- Assessed the force and displacement demands in critical elements due to the applied seismic motions for design verification purposes and proposed changes
- Analysed the behaviour of pile foundations by checking the strain demands in the member due to the earthquake
- Currently involved in Performance based design of a high-rise building using Perform-3D and in developing and maintaining files for peer review process

Aug-Dec'20 **Research Assistant** — **The University of British Columbia**

- Developed recommendations for modeling shear walls in Etabs and validated them by checking the performance of a real-time building under earthquakes -guided by Dr.Armin Bebamzadeh
- Grasped the intricacies involved in computer modeling by conducting different sensitivity analyses and honed my problem-solving and multi-tasking skills

Apr-Jul'18 **Engineering Intern** — **Aswin Constructions, India**

- Ensured the progress of work and their conformity to site drawings by performing onsite survey and regular site inspections
- Involved in regular meetings with the client, Engineers, and Drafters to ensure successful and smooth completion of the project

Projects

Sep-Dec'20 **Design of Masonry Structure** — **UBC**

- Took this as an additional course to have versatility in design and to prepare me for working in a deadline-driven environment
- Performed hand calculations to design a 6-story masonry building and also carried out design checks of team member's work effectively

Jan-Apr'20 **Nonlinear seismic analysis of a high-rise building** — **UBC**

- Modeled a 30-story building in Etabs and performed linear-static and response spectrum analyses in accordance with NBCC 2015
- Created fiber sections and shear hinges to capture the nonlinearity and carried out Pushover and Time history analyses
- Obtained working knowledge of CSA 23.3, LATBSDC and checked the shear, rotation, drift and strain demands under ground motions

Awards and Honors

Jun'16-Apr'18 **Global Leadership Forum** — **Organizer**
Exhibited excellent leadership and communication skills by liaising with the guest speakers, professors and my team

Nov '17 **Design Forum Award** — **Department of Civil Engineering**
Secured the top place in an inter-college design competition for displaying finesse in AutoCAD drawings and report writing