15801 Chase Hill Blvd
San Antonio, Texas

SUMAN BANJADE
MSCE, EIT

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SKILLS

SAP2000	ETABS	MATLAB	AutoCAD	Mathcad	CSI-SAFE	Python

EDUCATION

Master of Science, Civil Engineering (Structural), GPA: 3.85   **Aug 2019 – May 2021**
The University of Texas at San Antonio   San Antonio, Texas

Bachelor of Engineering, Civil Engineering   **Nov 2012 – Nov 2016**
Tribhuvan University   Kathmandu, Nepal

WORK EXPERIENCE

Grader for Computer-Aided Design (CAD) course   **Jan 2021 – Present**
The University of Texas at San Antonio   San Antonio, Texas

- Conduct duties related to grading & evaluation of student's work for the course
- Interact with students to address their queries related to the application of CAD in civil engineering

Graduate Research Assistant   **Aug 2019 – Present**
The University of Texas at San Antonio   San Antonio, Texas

- Worked on a TxDOT funded research project to develop a non-contact technology, CIV (Civil Infrastructure Vision) system that is used to monitor long-term damage progressions on bridges
- Developed an effective method to calibrate and validate the CIV system to deliver measurements with a measurement accuracy on the order of few thousands of an inch
- Performed long-term monitoring of concrete bridge sections afflicted by ASR (Alkali-Silica Reaction) in Downtown, San Antonio areas
- Provided training/workshop to TxDOT employees on the use of CIV system
- Prepared and presented technical reports to TxDOT on annual progress of the project

Civil Engineer   **Oct 2017 – Aug 2018**
Paramita Engineering Consultancy   Butwal, Nepal

- Designed & analyzed residential concrete buildings using CSI products like SAP2000 & ETABS; Designed the 3-D model of buildings in SketchUp and performed rendering of 3D designs.
- Supervised building construction process by regular co-ordination with the contractors and frequent site visits

Senior Surveyor/ Civil Engineer   **Aug 2017 – Oct 2017**
Nepal Reconstruction Authority   Kathmandu, Nepal

- Conducted seismic damage assessment of more than 400 houses affected by 2015 Nepal Earthquake
- Prepared reports and delivered technical support to restore the structural integrity of affected structures

COURSEWORK ATTAINMENT

- **Graduate Level:** Advanced knowledge on courses such as Earthquake Engineering, Advanced Reinforced Concrete, Advanced Structural Analysis, Bridge Design, Prestressed Concrete, Blast Design of Structures
- **Undergraduate Level:** Knowledge of Design of Steel & Timber Structures, Earthquake Engineering, Structural Dynamics, Design of RCC Structures, Computational Techniques in Civil Engineering, Foundation Design
- Accustomed to design codes such as ACI 318-19, ASCE 7-16, IBC-2016, AASHTO LRFD Bridge Design, AISC
- General knowledge on use of structural analysis software like RISA-3D, RAM Structural System, etc.

RELEVANT PROJECTS

- Collaborated on a team of four to analyze and design Science and Engineering Building (SEB) at UTSA; Performed cost estimation using RS Means, preliminary design & analysis of building in CSI-SAFE and SAP2000 as per design code guidelines   **Aug 2020 – Dec 2020**
- Analyzed & designed a multi-storied commercial building to be resilient to seismic effects   **Nov 2015 – Sep 2016**
- Conducted surveying and traversing to select the location of a bridge in a road alignment   **Sep 2015 – Oct 2015**

HONORS AND AWARDS

- UTSA College of Engineering Scholarship   **Aug 2019 - May 2021**
- Fundamentals of Engineering (FE) Exam, Texas Board   **NCEES ID:21-440-69**
- American Concrete Institute (Student Chapter); ASCE Student Member   **2019 – 2021**
- Government of Nepal merit-based scholarship for undergraduate students   **Dec 2012 - Dec 2016**