

# CHERISH PATEL



## CONTACT

**Address :** Arlington, TX 76013

**Phone :** (817) 729-7445

**Email :** cherishpatel3001@gmail.com

## LANGUAGES

**Gujarati:** 

**Hindi:**

**English:**

## SKILLS

- Structural Simulation (ETABS, SAP2000 & STAADPRO)
- Image processing & Graph plotting (MATLAB)
- Finite element modeling (ABAQUS & ANSYS)
- 2D and 3D modeling (AUTOCAD & REVIT)
- Financial analysis and management including risk assessment and capital budgeting techniques.
- Proficient in time value of money calculations and investment analysis
- Proficient in recording transactions, preparing final accounts, and cost analysis
- Strong grasp of accounting principles and double-entry bookkeeping

## HOBBIES AND INTERESTS

- Multiplayer sports (Cricket, Kabaddi, Tennis)
- Stock enthusiast
- Travel explorer
- Casio keyboard (Performer)

## WORKSHOPS AND COURSES

- Building Information Modeling (BIM) using Revit Training - January 2022
- Introduction to Python - August 2022
- Staad Pro - October 2022
- Advanced ETABS Modeling Techniques Training - June 2023

## EDUCATION

**Master of Engineering:** Civil Engineering, Expected in 06/2025  
**The University of Texas At Arlington** - Arlington, TX

- ASCE Member

**Bachelor of Technology:** Civil Engineering, 06/2023  
**Nirma University** - Ahmedabad, Gujarat, India  
CPI: 7.31/10

## PROJECTS

**Minor Project** 

**Investigated the relationship between pedestrian behavior, urban road design, and traffic flow to improve pedestrian safety.**

- Analyzed pedestrian behavior and traffic flow on a major urban roadway in Ahmedabad, India.
- Identified correlations between illegal pedestrian crossings and accident risks.
- Developed a conceptual roadside design proposal using SketchUp software to enhance pedestrian safety.

**Major Project**

**Conducted research on implementing advanced passive control systems (dampers, bracing) in earthquake-resistant building designs.**

- Analyzed the effectiveness of various dampers (air, elastomer) using shake table experiments and software simulations.
- Observed significant reductions in maximum story displacement (20-42%) when using dampers and bracing compared to conventional designs.
- Demonstrated the potential of passive control devices to improve building resilience against seismic loads.

## TRAINING

**Site Engineer,** 05/2022 to 07/2022

**Sky Infra** - Ahmedabad, Gujarat, India

- Delivered projects on time and within budget constraints by effectively managing resources, schedules, and risks.
- Facilitated construction by mapping out utility installations and establishing reference points, grades and elevations.
- Enhanced site safety by conducting regular inspections and enforcing strict adherence to safety protocols.
- Estimated materials costs and sourcing requirements for project feasibility.
- Reduced material waste through accurate estimation, procurement, and usage tracking of required resources.