

SAGAR PATEL, EIT-TX (No: 84027)

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"Ambitious Engineer-in-Training with a passion for sustainable infrastructure design in water/wastewater, transportation, and energy sectors, driven to become a future engineering lead and on track to earn Professional Engineer (PE) licensure in 2026."

EDUCATION

Texas A&M University , College Station, TX	Aug 2024 – Present
Master of Science in Civil Engineering	Current GPA – 4/4
○ Awarded Zachry Department of Civil and Environmental Engineering Excellence Fellowship.	
Maharaja Sayajirao University of Baroda , Vadodara, India	Jul 2014 – May 2018
Bachelor of Civil Engineering	GPA – 3.86/4
○ Awarded Prof. R. H. Shah Umrethwala Memorial Gold Medal for excelling in structural analysis and design courses.	

SKILLS

◆ **Design/Modeling:** AutoCAD (Civil3D), STAAD Pro V8i, COMSOL Multiphysics, Bluebeam Revu, Solidworks, Revit, Navisworks (BIM 4D/5D), @RISK, EZStrobe, HydroCAD, HEC-RAS, HEC-HMS. ◆ **Procurement:** SAP ERP. ◆ **Project Management:** MS Project, Primavera P6, Procore. ◆ **Civil Engineering:** Cost Estimation (RSMans), SharePoint, Vendor Management, Tendering, Surveying, MS Office.

PROFESSIONAL EXPERIENCE

Neera Associates Inc. , Houston, TX	Aug 2025 – Present
Engineer In Training (EIT) , (Full-time/Hybrid)	
○ Support City of Houston wastewater infrastructure projects as a sub-consultant to BinkleyBarfield DCCM , contributing to structural, process, and facility design, ensuring compliance with TCEQ (Texas Commission on Environmental Quality) guidelines and municipal requirements.	
○ Conduct field assessments of lift stations, deploying LAMDA-3 , IoT-based wastewater flow monitoring technology, for real-time performance diagnostics to generate a detailed analysis to avoid surcharge or pump dry run.	
○ Design of a new clarifier for the Beltway Wastewater Treatment Plant , focusing on hydraulic, structural, and constructability considerations as a sub-consultant to Weston Solutions, Inc.	
○ Prepare technical reports, calculations, and design sheets documenting existing conditions, findings, LAMDA-3 analysis, and engineering recommendations for clients and partnering consultants.	
○ Perform 2D drafting in AutoCAD and 3D modelling in SolidWorks for lift stations, clarifiers, and facility components.	
○ Execute structural analysis and design using STAAD Pro v8i and COMSOL Multiphysics for structural components.	
WSP USA Inc. , Houston, TX	May 2025 – Aug 2025
Civil Engineering Intern, Power & Energy Group (Full-time/Hybrid)	
○ Contributed to the civil site design of onshore renewable energy projects (Electrification and Solar & Wind Farms).	
○ Majorly worked with the United States Postal Service (USPS) on their nationwide electrification project by collaborating with professional surveyors to review existing condition surveys and import data into Civil3D and Autodesk Construction Cloud (ACC) for developments like 2D Design, Grading, Corridor Modelling (Cut/Fill analysis and optimization), etc., under the guidance of senior PEs.	
○ Modified existing parking facility features, such as pavement markings, channelizing islands, and ADA-compliant parking as per MUTCD (Manual on Uniform Traffic Control Devices) and USPS electrification project standards.	
○ Performed stormwater and drainage calculations to design pipelines and capacity of retention/detention ponds , keeping time of concentration and peak discharge in mind.	
○ Produced and maintained detail sheet sets following client specifications, Internal QA/QC departments, and other applicable AHJs.	
○ Supported City, County, and State permit applications , e.g., stormwater/grading permits, and environmental clearances.	
○ Assisted in developing the SWPPP permit for the state-level electric transmission project using FEMA Maps .	
○ Streamlined project communication by coordinating with internal team and clients on RFIs, submittals, and markups using Bluebeam Revu, ensuring timely review and resolution of 10%, 30%, 100%, IFB, and IFC sheet sets .	
Bhumi Associates , Vadodara, India	Sep 2023 – Jun 2024
Engineering Manager (Full-time/On-site)	
○ Administered and led cross-functional teams in a large-scale residential project worth \$2 million , monitoring time, cost, and quality aspects, adhering to health and safety protocols, and assuring compliance with local building codes and zoning laws.	