

AVI JATINKUMAR CHAMPANERIA

659 297 8655 | Arlington, TX | avichampaneria@gmail.com | [linkedin.com/in/avi-champaneria-713249257](https://www.linkedin.com/in/avi-champaneria-713249257)

EDUCATION

Master in Construction Engineering and Management, University of Texas at Arlington, Arlington, TX **GPA: 3.0/4.0** **May 2024**
Coursework: Construction Methods and Field Operations, Temporary Structure, Risk Management, Construction Finance, Project Control, Construction Contracts, Construction Project Administration, Land and Site Development, Construction Productivity, Construction Material
Bachelor in Engineering in Civil Engineering, Gujarat Technology University, India **GPA: 3.29/4.0** **Aug 2019**
Coursework: Building and Town Planning, Pavement Design and Highway Construction, Structural Analysis, Concrete Technology, Transportation Engineering, Construction Engineering and Management

EXPERIENCE

Lab assistant | UTA office of human resources and curie lab | Arlington, Texas **Sept 2024 - Present**

- Create, maintain, and enhance the lab's quality control processes and procedures in accordance with industry standards
- Support cross-functional teams, streamline lab procedures and quality standards training to enhance overall efficiency
- Make ensuring that equipment is calibrated correctly, maintained, and that safety and environmental regulations are followed
- Make sure that all documents, including as research notes, experiment logs and calibration reports, are correct and traceable

Site Engineer | Dharm Architects | India **Aug 2019 - Jan 2022**

- Led and motivated a cross-functional team, ensuring that all project deliverables were met within scope and cost constraints
- Managed multi-story building projects with a budget of approximately \$2 million, delivering an increase in productivity
- Conducted inspections, producing detailed site visit reports & settled proactive mitigation strategies in matching with leadership
- Coordinated effectively with clients, contractors, and stakeholders to review project specifications, maintain communication, and ensure alignment on goals, while managing daily logs and documentation

Internship | Surat Municipal Corporation | India **June 2018 - Dec 2018**

- Led project teams in troubleshooting technical issues, ensuring the effective resolution of challenges and maintaining momentum
- Prepared regular progress reports to government stakeholders, ensuring transparency & alignment with project goals & timelines
- Implemented rigorous quality control measures, reducing construction defects and rework by 15%, thereby improving outcomes
- Developed inclusive project plans, schedules & budgets, efficiently balancing resource allocation, cost control & project timelines
- Utilized AutoCAD, Micro station, and Civil 3D software to produce detailed structural designs, construction plans, and site layouts

ACADEMIC PROJECTS EXPERIENCE

Shaft excavation for wastewater treatment plant project **Jan 2023 – May 2023**

- Conducted detailed quantitative analysis of soil strata for screening and pumping shafts, determining production rates, cycle times, and excavation volumes for efficient soil excavation and lifting operations
- Calculated the number of trucks required for material transport post-excavation, including power and operational hour requirements, ensuring optimal truck and compactor usage for effective spreading and compaction

Design of box Girder Bridge Timber False work **Aug 2022 - Dec 2022**

- Engineered the design of various false work components, including stringers, soffits, cap beams, posts, lateral bracing, stem walls, and top decks, calculating load distributions, spacing, and dimensions for each element
- Developed Shear Force & Bending Moment Diagrams to determine load on cap beams and reactions at supports using RISA-2D

Innovative road payment in Transportation engineering **May 2018 – Sep 2018**

- Conducted a comparative study on conventional road construction versus flexible concrete for innovative pavement solutions
- Explored the use of sisal fiber reinforcement to enhance the durability of concrete slabs, improving resistance to cracking

TECHNICAL SKILLS

Project Management and Engineering Tools: Microsoft Project, Primavera P6, Autocad, Revit, RISA-2D, ETABS, SAP2000, Civil 3D, Procore
Project Planning and Controls: Schedule Management, Cost Estimation & Control, Earned Value Management (EVM), Risk Assessment, Critical Path Method (CPM), Resource Allocation, Procurement Planning, Budgeting & Forecasting, Project Lifecycle Management
Site Engineering and Field Operations: Construction Site Supervision, Site Surveys, Structural Inspections, Site Safety, Geotechnical Investigations, Material Testing, Soil Mechanics, Concrete Mix Design, Site Coordination, Subcontractor Management
Structural Engineering and Design: Structural Load Analysis, Shear Force & Bending Moment Diagrams, Concrete & Steel Design, Structural Detailing, Load Distribution Calculations, Temporary Structures (Falsework, Formwork), Structural Analysis Software
Civil Engineering: Soil Testing, Road & Pavement Design, Stormwater Management, Earthworks, Drainage Systems, Highway Engineering, Pavement Design, Environmental Impact Assessments (EIA), Structural Foundations
Quality Assurance and Safety: ISO 9001, Quality Control Procedures, Compliance Auditing, Risk Management, Construction Safety Regulations, Safety Audits, Lean Construction, Six Sigma, Root Cause Analysis
Leadership and Communication: Team Leadership, Client Coordination, Stakeholder Engagement, Negotiation, Technical Presentations

CERTIFICATIONS

- OSHA 30
- Confined Space