

Akshay Jhawar

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OBJECTIVE

To develop the technical acumen to design, construct and maintain the infrastructure desirable for the development of the society and the community, which is secure, safe and accessible to all.

EDUCATION

Master of Science in Civil Engineering, anticipated May 2024, GPA- 3.83
University of Texas at Arlington, TX USA

Bachelor of Engineering in Civil Engineering, Jun 2016, GPA- 3.21
Rajiv Gandhi Proudhyogiki Vishwavidyalaya, India

PROFESSIONAL EXPERIENCE

Civil Engineering Intern, Engineering Analytics Inc., Raton, NM May 2023 – Present

- **Design & Construction Plans** for various **Projects**: retrofitting Bike Trail at Sugarite Ave. in Raton NM, Cold milling & Asphalt overlay at Summit Ave. in Town of Springer NM, I-25 Frontage Road Reconstruction Project, Septic Tank for VP Ranch Raton NM.
- Responsible for **Laboratory & Field Testing of Concrete & Soil, Site Inspection, Field Reconnaissance, measuring quantities built and Bid Documents** like Project Manual, Technical Specifications and Environmental Clearance, etc.

Graduate Teaching Assistant, UTA, Arlington Jan 2023 – May 2023

- Responsible to tutor the concepts of sampling and testing of concrete, soil, and other construction materials.
- Performing experiments in **Construction Material Testing Laboratory**.

Freelancer, India Jun 2016 - Apr 2022

- Responsibilities include **Planning, Designing, Lay-out, Supervision and Construction**.
- Provided **Technical Consultation** to local builders and contractors.

Content Developer, Thinking Tree Learnings Pvt Ltd, India Apr 2020 - Aug 2022

- Responsible for **content development** for the Civil Services Examination (CSE), India.
- Drafted **Presentations and Test Series** as well as evaluating & analysing the answer sheets.

PROJECT WORK

Presentation on Bond Strength between Pavement Layers, Apr 2023

- To study and understand models like **BISAR, FE Analysis** for analysing the Pavement layers and **Shear, Tensile & Torsional Tests** for determining the strength of **Tack Coat** binding materials.

Presentation on Concrete Pavement in Cold Climate, Nov 2022

- Analysing and understanding the **properties** of Concrete Pavement in Cold Climate, **distresses** that evolve due to temperature dip, **life cycle** of the pavement and **measures to mitigate** the possible impacts and impact of **de-icing**.

Classification of Sidewalk and Rating System based on Distress Type, Nov 2022

- Condition of the Sidewalk around the UTA was assessed. **ASTM D6433-20 and National Bridge Inspection Standards (NBIS)** were referenced for preparing the Assessment and Rating System while considering the **ADA Guidelines**.

Study and Design of Isolated Footing, May 2016

- A **footing** for the **Soil Testing Lab** was designed considering the provisions of **Indian Standard-456 (IS 456)**.

TECHNICAL SKILLS

- Contouring, Project Management, Asset Management, Bills of Material, Cost Estimation & Valuation, Property Evaluation, Designing & Planning, Project Scheduling, Critical Thinking, Attention to detailing, Building Information Modelling (BIM), Geographic Information System (GIS), Computer-aided Design (CADD/CAD).
- AutoCAD, Revit, Autodesk Civil 3D, MicroStation, HEC-HMS, Auto Level, Total Station

RELATED COURSEWORK

Infrastructure Maintenance, Evaluation & Renewal, Pavement Design, Foundation Analysis & Design, Building Design & Drawing, Structural Design & Drawing, Highway Concrete Reinforced Bridges Design, Design of Earth Structures.