

# RUTVIJ MATERE, CMIT

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## EDUCATION

### UNIVERSITY OF ILLINOIS, CHICAGO, USA

Aug 2022- May 2024

*Master's in construction engineering and management (MS CME)*

GPA: 3.8/4.0

### Mumbai University, India

Jun 2015 – Oct 2020

*Bachelor of Engineering, Civil Engineering*

GPA: 3.0/4.0

**Relevant Courses:** Construction Engineering and Management, Construction, Construction Engineering Project Controls, Construction Estimating and Scheduling, Construction Equipment and Design Method, Construction Regulations and Organizational Management, Geometrical Highway Design.

## PROFESSIONAL EXPERIENCE

### City of Des Plaines, (Municipality) – Civil Engineer

July 2024 – Present

- Led the review and approval of right-of-way permits for private projects and utility work, ensuring strict compliance with city codes and standards while optimizing the approval process for efficiency.
- Conduct comprehensive inspections and designed water main networks, sewer systems, and stormwater management systems, enhancing infrastructure reliability and sustainability.
- Evaluated construction bids and provided recommendations to select the most cost-effective and dependable options, ensuring alignment with project goals and budgets.
- Designed & planned streets and alleys, contributing to significant improvements in local infrastructure and urban development.
- Leveraged GIS mapping tools to analyze infrastructure data and interpret local and state regulatory codes, supporting informed decision-making and project planning.
- Reviewed private project designs and specifications for the Community and Economic Development Department, ensuring compliance with municipal codes and advancing community development initiatives.

### Chastain & Associates LLC, Chicago, IL, Construction Intern

May 2023- Aug 2023

- Planned and managed arterial roads, local streets, alleys, and multi-use paths to improve transportation infrastructure and accessibility.
- Conducted advanced pavement management and design, optimizing performance and lifecycle costs for transportation networks.
- Performed floodplain and drainage analysis, designing effective detention and retention systems to manage water flow and prevent flooding.
- Created ADA-compliant designs for sidewalks, ramps, and public access structures, enhancing usability and accessibility.
- Assisted in conducting site surveys, quality control assessments, and material testing, contributing to project progress tracking.

### Larsen & Toubro Limited, India, Trainee Engineer

May 2022 – Jul 2022

- Supervised the casting of segment, Carried out the necessary formwork for the initial construction of superstructure.
- Led a team of 4 foremen, 2 site supervisors, and 2 subcontractors and organized monthly safety meetings for the crew.
- Provided on-site review of shop drawings, site inspections, and reports of work in progress.

### Manoj Infra work Private, Limited, Mumbai, India Jr. Engineer (Expressway Construction)

Nov 2020 – Dec 2021

- Led the design and engineering efforts for a major highway project, ensuring compliance with industry standards and regulations.
- Conducted quality inspections on incoming materials and construction activities as detailed in the relevant ITP's.
- Generated RFIs, reviewed construction drawings, submittals, and GC responses, and made necessary changes in the model.
- Conducted in-depth site inspections to evaluate the viability of the project, identify any potential obstacles, and provide workable solutions.

## ACADEMIC PROJECTS

### Research paper- University of Illinois, Chicago.

Aug – Dec 2022

- Research Paper on Sustainable Construction: Challenges and Opportunities, under guidance of (Prof. Dr. Hossein Ataei).
- Research paper on Implementing the process and procedure of placing asphalt on the red light to Gbarnga highway (176.8km).

### Use of industrial waste material in Road Construction.

May 2019 – Sep 2020

- The primary aim behind this project was to address the issue of industrial waste which causes problems for the environment as well as for society.
- Studied each waste material separately & performed necessary tests required for the actual implementation of the project.

## SKILLS AND SOFTWARE

- MicroStation • Autodesk AutoCAD • MS Excel
- MS Project • Civil 3D • MS Word
- Scheduling • Project Planning • MS PowerPoint.

## LEADERSHIP EXPERIENCES

- Active member of Robin Hood Army (RHA), an organization working towards serving less fortunate people of the community.
- Member of A.C.E.S (Association of Civil Engineering Students) during undergraduate studies.