

# DURGA HARSHAVARDHAN DASARI

Charlotte, NC | 7043696646 | [ddasari1@charlotte.edu](mailto:ddasari1@charlotte.edu) | [www.linkedin.com/in/harshadvardhan107](https://www.linkedin.com/in/harshadvardhan107)

## Education

### University of North Carolina at Charlotte, NC

August 2023-May 2025

Master of Science in Construction and Facilities Engineering

### Jawaharlal Nehru Technological University, Kakinada, India

July 2018-July 2021

Bachelor of Technology in Civil Engineering

**Relevant Course Work:** Project Planning & Management, Building Information Modelling, Project Scheduling & Controlling, Safety & Risk Management, RFP Development, Operation of Constructed Facilities.

## Technical Skills

Auto CAD | Revit | Primavera P6 | Building Information Modelling | MS Project | Site Engineering | Land Development | QA/QC | Sketchup 3D | Navisworks | Material Testing | Construction Site Auditing | site grading | stormwater system design | Incident Investigation & Reporting | STAAD Pro | Basics of Accubid & Bluebeam | GIS Mapping Software | Microsoft Office

## Work Experience

### SGM Constructions, Vijayawada, India

November 2021-June 2023

#### Junior Engineer

- Supported civil engineering teams in site development, grading, drainage, and utility coordination for residential and commercial construction projects.
- Assisted with review and implementation of site plans, ensuring compliance with regulatory codes, zoning ordinances, and engineering standards.
- Coordinated with cross-functional teams to translate design drawings into construction-ready tasks, improving project execution efficiency.
- Prepared technical documentation including daily progress reports, material take-offs, and cost estimates to support engineering deliverables and stakeholder communication
- Maintained and updated daily site reports and 3-week lookahead schedules, contributing to a 10% improvement in workflow planning.

#### Construction Management Intern

August 2020-December 2020

- Assisted in preparation and review of site civil plans, including grading, and utility layout using AutoCAD Civil 3D under licensed engineer supervision.
- Participated in internal design reviews and client meetings, documented meeting minutes and tracked action items to support project delivery and coordination.
- Conducted site inspections and compiled photo documentation to support quality assurance, regulatory compliance, and permitting processes; assisted engineers in tracking project deliverables for residential and commercial projects.

#### Draftsperson, Shiva Builders, India

July 2017-December 2017

- Created 2D and 3D technical drawings for residential, commercial, and infrastructure projects using AutoCAD and Revit.
- Participated in the conceptualization phase of multiple projects, providing technical support and input for land development, site layout, and initial design.
- Ensured timely, cost-effective design solutions, contributing to three projects (\$150K–\$220K) completion.

## Projects

### Building Information Modelling - UNCC Library Building Design

January 2025-May 2025

- Designed a complete 3D architectural and structural BIM model of the proposed UNCC library using Autodesk Revit.
- Performed clash detection analysis to identify and resolve coordination issues using Navisworks Manage.
- Generated accurate quantity take-offs (QTO) and material schedules for structural and architectural elements.

### Project Scheduling and Control - Highway Bridge Construction Scheduling

September 2024-December 2024

- Developed a full project schedule in Primavera P6 for a 150m highway bridge including foundations, piers, girders, and deck slab.
- Created a detailed WBS and sequenced 120+ activities using FS, SS, and FF logic to identify the critical path.
- Loaded resources (labour, materials, equipment) and performed cost tracking and earned value analysis.

### Analysis and Designing of Flexible Pavements

February 2021-June 2021

- Designed flexible pavement for low, medium, and heavy traffic levels using industry-standard methods.
- Conducted soil tests (CBR: 7.46%) to optimize pavement thickness and durability. Utilized CBR method (IRC: 37-2001) to design cost-effective and efficient pavements based on traffic load and material properties.

### Stabilization of Black cotton soil using salts

December 2017-April 2018

- Conducted comparative analysis of the two salts, finding CaCl<sub>2</sub> to provide better soil stabilization results than NaCl.
- Improved soil properties by 8% using NaCl and CaCl<sub>2</sub>, enhancing soil strength and durability.

## Certifications

OSHA 30 | LEED Green Associate | AutoCAD | Procore | Engineer-in-Training (EIT) – Expected within 6 months