

# RUTVIK NIRMAL

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## SKILLS

**Software Proficiency:** AutoCAD, Revit, Civil 3D, BIM, Primavera P6, Bluebeam, MicroStation, MS Office, MS Project, Total Station

**Soft skills:** Time management, Multi-tasking, Decision Making, Communication, Problem Solving, Organizational skills, Team Leadership, Critical Thinking, Conflict Solving

**Technical skills:** Project Coordinating, Report Writing, Designing, Project Management, Request for Information (RFI), Field Coordinating, Job Hazard Analysis (JHA), Reading Drawings

## PROFESSIONAL EXPERIENCE

### Junior Civil Engineer | Ashwani Construction | Ahmedabad, India

July 2020 - July 2021

- Assisted project manager and superintendent with project implementation, which included quantity calculation, preparing contract drawings, scheduling, and resolving technical field issues.
- Worked in a team of 30 people to develop tender packages, performed quantity take-off and surveys for efficient reporting of municipal infrastructure projects.
- Participated in project meetings and provided inputs on technical issues.
- Prepared Scope of Work (SOP) and Job Hazard Analysis (JHA) for all construction works.
- Met daily requirements with project crews to review and forecast production schedule and confirm all materials, equipment and resources are readily available for production to continue as per schedule and within budget.
- Formulated quality control and safety standards to comply with construction plans and attended on-site meetings with subcontractors and clients.
- Coordinated with equipment and material deliveries on scheduled time.
- Maintained project records, including drawings, specifications, and reports.
- Notified team members and project managers of any significant schedule changes and recommended solutions for management consideration.

### Field Engineer Co-op | UACEG | Sofia, Bulgaria

June 2019 - Dec. 2019

- Collaborated with project managers and assisting engineers for the planning and designing of the land development projects in City of Sofia.
- Oversaw project progress to ensure it was on schedule and within budget.
- Conducted site inspections, testing, and quality control to ensure compliance with standards and regulations.
- Implemented health and safety measures, investigated incidents, and managed environmental impacts.
- Ensured that all work was completed to the required standards, with appropriate documentation and reporting.
- Communicated with stakeholders and problem-solved technical issues to ensure successful project completion.

### Research Assistant | University of Ottawa | Ottawa, Canada

May 2022 - Dec. 2022

- Conducted literature reviews and stayed up to date by supporting the researchers on the research project "Integration of Construction 4.0 for sustainable infrastructure".
- Participated in research meetings, presented findings organized records of research activities.
- Assisted with project management tasks such as organizing meetings, coordinating project timelines, and communicating with team members.
- Worked closely with the research team, supervisors, and other stakeholders to achieve research goals.
- Addressed issues and found solutions to ensure that the research progresses smoothly.

## OTHER EXPERIENCE

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### **Construction and Building Material Representative | The Home Depot | Ottawa, Canada (June 2022-Current)**

- Handled open-ended questions about customers' projects to determine their needs.
- Utilized computer terminals to check inventory and decision-making tasks.
- Worked in a fast-paced environment with assistant managers to finish the goal.

## EDUCATION

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### **University of Ottawa | Ottawa, Canada**

**Sept 2021-Current**

*Master of Engineering in Civil Engineering (GPA: 3.8/4.0)*

Related course work: Project Information Management, Engineering Design, Transportation Engineering, Sustainable Infrastructure Projects, Geotechnical Hazards

Student Researcher: Construction 4.0 for Sustainable Infrastructure Projects in Changing Climate

### **Gujarat Technological University | Ahmedabad, India**

**June 2016 - August 2020**

*Bachelor of civil engineering (GPA- 3.76/4.0)*

Related course work: Estimating, Urban Transportation System, Construction Project Management, Foundation of Civil Engineering, Professional Practice and Valuation, Construction Safety

Teaching Assistant: Advancement in Construction Management

## PROJECTS

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### **Construction 4.0 for sustainable infrastructure projects in changing climate**

**June 2022- Dec 2022**

- Used Bridge Information 3D Modelling (BrIM) to integrate life-cycle cost and sustainability.
- Analysed multi-criteria responsible for the success of construction 4.0 and carbon emission reduction.
- Monitored the modern infrastructure's timesaving, cost-saving, and quality with a less harmful effect on the environment.

### **Design of automated solar distillation as temperature regulator for greenhouse**

**June 2018 - Dec. 2019**

- Prepared prototype model based on an automated system running on Arduino, which is used to maintain the greenhouse's temperature and moisture content.
- The primary concept of the project was to grow various vegetation in the arid zone during winter.
- The excess energy released was used to get fresh water from the outlet of solar distillation.

### **Reduction in dead load of high-rise buildings**

**July 2016 - July 2017**

- Implemented the idea to use fly ash bricks and hollow concrete to reduce the dead load.
- Analysis proved that uniform size of fly ash bricks, construction costs can be saved by 40-50%.
- Identified that fly ash bricks are not subjected to load-bearing structure because of their slight reduction in compressive strength compared with nominal brick.

## LICENSES AND CERTIFICATIONS

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### **G license | Ontario, Canada**

**Aug. 2022 – Aug. 2032**

### **Engineer-In-Training (Registered), Professional Engineers Ontario**

**Sept. 2022**

### **WHIMS Safety, Worksite Safety**

**March. 2023**