**Mounika Thokala**
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**Professional Summary**

 Experienced Civil Engineer with 7 years in public infrastructure, residential, and commercial construction projects. Skilled in site supervision, project estimation, structural design, and execution of water systems, roadworks, and land development. Proficient in technical drawing interpretation, BOQ preparation, stakeholder coordination, and sustainable material selection. Strong leadership, communication, and problem-solving skills with a focus on quality, safety, and timely project delivery

**Core Competencies**

•Project Management • AutoCAD Drafting• Revit •3D modelling • Energy Audits • HOT2000 • RETScreen • eQuest •Technical Reporting • PV & Battery Systems • Construction Supervision • MS Office Suite

**Professional Experience**

**Secretary – Ward amenities department**
**Vijayawada Municipal Corporation (civic)**, Vijayawada, India | **Dec 2019 – Nov 2023**

* Managed the renovation of government school infrastructure with a budget of 69 lakhs under the Nadu-Nedu program by engaging with stakeholders—including parents, school committees, and design professionals—to develop need-based, cost-effective infrastructure improvements.
* Prepared comprehensive cost estimates and sustainable material specifications while ensuring budget adherence and timely completion across multiple project stages, achieving an 80% success rate in milestone execution.
* Supervised diverse construction and maintenance projects—including residential, commercial, and institutional buildings in the ward allotted—ensuring structural integrity, code compliance, and construction standards. Oversaw civil infrastructure works for such as roadway development, utility service installations (water and sewer), site grading, and demolition.
* Conducted routine site inspections to verify contractor compliance with construction specifications, safety protocols, and regulatory requirements. Resolved 95% of on-site technical challenges through proactive coordination with multidisciplinary teams and local authorities, supporting on-time and within-budget project completion.
* Designed and optimized water distribution pipeline networks in the ward area of 4.5 sq.km to enhance system efficiency and support sustainable, long-term water supply solutions.
* Monitored the execution of a 25 km drinking water pipeline project (AMRUT scheme), coordinating with architects, senior engineers, and contractors to ensure timely delivery and adherence to quality standards, benefitting over 2,500 residents with 24/7 access.

**Junior Civil engineer**
**Srinivas Associates**, Hyderabad, India | **Feb 2016 – Nov 2019**

* Prepared architectural, structural, and electrical layout and landscape drawings based on client and site requirements.
* Performed manual structural design and CAD drafting to ensure compliance with project standards and cost estimates. Collaborated with architects and engineers to revise designs, enhancing alignment with client needs and site conditions.

**First responder**
**Paladin Security Group**, Vancouver, Canada | Current

* Supervised construction sites with a strong focus on safety compliance, resource management, and protection of personnel and materials, ensuring efficient and organized operations.
* Utilized strong analytical thinking, communication, and problem-solving skills to address security issues and coordinate effectively with cross-functional teams and stakeholders.
* Demonstrated adaptability, leadership, and client relationship management by prioritizing tasks in dynamic environments and fostering collaboration to meet project deadlines

**Education**

**Masters** – Energy management
**New York Institute of Technology**, Vancouver, BC| **Jan 2024 – Dec 2024**

* Gained foundational knowledge in wastewater treatment, toxicity, and sustainable practices, with a focus on minimizing environmental impacts and protecting biodiversity. Explored the production and application of biofuels and their role in decarbonization strategies through a comparative analysis of renewable energy technologies.
* Conducted an energy audit of an estate building using e-Quest, developed baseline models, and proposed energy-saving measures based on simulation data. Applied systems engineering principles and risk assessment tools like FMEA to improve project planning, execution, and reliability.

**Bachelor of Technology** – Civil Engineering
**SRK Institute of Technology**, Vijayawada, India| **Aug 2011 – July 2015**

* Developed a strong foundation in core civil engineering subjects, including surveying techniques, geotechnical engineering, structural analysis, transportation planning, and water and wastewater treatment systems.

**Certifications & Training**

* Auto CAD | CAD centre
* Revit | Courseera
* BIM | Courseera
* E Quest
* hot2000
* First aid level1

**Technical Skills**

* Technical proficiency in AutoCAD, quantity estimates, and manual structural design.
* Project execution with planning, report writing, and team collaboration. Site inspections, contractor supervision, and survey coordination. Water infrastructure design and drafting.
* Analytical skills like Problem-solving, quality control, and data management.

**Projects**

**Structural analysis and design of a multi-storeyed RCC building using ETABS**
SRK Institute of Technology, Vancouver | Sept 2014 – Feb 2015

* Applied IS codes, seismic and wind load modeling, and structural detailing aligned with industry standards.

**Step Code Impact Analysis - Building Envelope & Mechanical Systems in Metro Vancouver**
New York Institute of Technology, Vancouver | Aug 2024 – Dec 2024

* Completed a detailed project evaluating the impact of BC Energy Step Code changes on residential buildings in Metro Vancouver, with a focus on achieving Step Code Level 5 compliance. Performed energy modeling using HOT2000 to compare base-case scenarios with upgrades to the building envelope—including airtightness, insulation, and high-performance windows—and mechanical systems such as heat recovery ventilators (HRVs) and heat pumps.