

MANISH VENUGOPAL, CMIT

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ACADEMIC QUALIFICATION

Master of Science in Construction and Facilities Management

December 2019

University of North Carolina at Charlotte, Charlotte, NC. Current GPA: 3.875

Bachelor of Engineering in Civil Engineering

May 2017

SSN College of Engineering affiliated to Anna University, Chennai, India. GPA: 4.0

TECHNICAL SKILLS

Programming Languages: C, C++

Modelling: AutoCAD, STAAD PRO, Revit, Navisworks ArcGIS, Primavera P6, Synchro, IBM SPSS Statistical Software, Minitab, Microsoft Office Suite, Procore

ACADEMIC PROJECTS

Building Information Modelling- Design and Rendering of high-rise apartments using Revit, Charlotte, NC

- Developed a Revit model for a 5 Storey residential apartment including architectural, structural and MEP components.
- Performed clash detection and walk through demonstrations using Navisworks, performed QTO
- Generated energy simulation using alternative materials for efficiency.

Project Scheduling and Control, Charlotte, NC

- Scheduled activities from the bid documents for a Highway Bridge Project in Charlotte, NC using Primavera P6
- Assigned WBS, Duration, Cost, and Resources.
- Performed baseline creation, updating, crashing the schedule, and generated earned value reports.

Safety Audit of Admissions and Visitors Center at University of North Carolina, Charlotte, NC

- Safety was assessed in the project by site inspection and interviews regarding policies and past records

Experimental Study on the Effect of Steel fiber volume content on the response behavior of GEO POLYMER Concrete

- Assessed the Strength characters (Compressional, Tensional and Split Tensile Strength) of Geo polymer Concrete with and without the addition of steel fibres

Planning and Design of a Cricket Stadium using the Indian Standard Codes, India

- Designed the components manually using the software AutoCAD and STAAD Pro.
- Analysed the plan and design of every component of the stadium

RELEVANT WORK EXPERIENCE

Assistant Project Manager, Randolph & Son Builders Inc., Pineville, NC

January 2019- Present

- Understanding project requirements, construction documents, specifications, soil reports, soil and concrete testing and designs.
- Evaluating scopes of work and qualification for subcontractors.
- Interacting with architects & engineers to coordinate construction details and document intents.
- Reviewing construction progress and quality control to make sure the project is being built per the design drawings and specifications.
- Reviewing shop drawings and submittals to make sure they meet the architects and engineers design criteria.
- Helping in developing critical path sequencing and schedules for the construction project.
- Working with construction software to communicate with site, architects and engineers to run the construction project.
- Analysing projects up front for potential safety hazards. Follow up throughout the project making sure it is safe as it is being built.

Project Engineer Intern, NJR Construction LLC, Charlotte, NC

August 2019-December 2019

- Analysing Schematic Design and Detailed Design for American Legion Memorial Stadium Project
- Attending Preconstruction meetings and writing reports
- Assisting with RFIs & submittals.
- Assisting with quantity take-off and pricing for drywalls, acoustical ceilings and metal framings

Assistant Staff Project Manager, ECS Southeast LLP, Charlotte, NC

May 2019- August 2019

- Analysing structural drawings to understand the project requirements
- Performing various tests on soils and concrete onsite.
- Determining and writing reports on the dry density, wet density, moisture content, percent compaction, and bearing capacity of the soil.
- Determining and writing reports on the slump, air voids, and temperature of the concrete mixture.

Graduate Research Assistant, Dr. Nicole Barclay, University of North Carolina at Charlotte

August 2018- December 2019

- Evaluating and analysing the pollutant concentration depending on factors such as precipitation, seasonal variation and impervious cover in terms of urbanization.
- Analysing the variation in the concentration to show the increasing need to use best management practices to treat the pollutants.

- Assisting the professor in the delivery of the course Civil AutoCAD 3D and Introduction to Environmental Engineering Technology.

Project Engineer, Eminent Constructions, Chennai, India

January 2018-June 2018

- Assisting in Scheduling and Estimation of projects.
- Tracking the finance of the project.
- Preparing project proposals.
- Handling subcontractor meetings,
- Handling RFIs, submittals, change orders, & punch-list items.
- Attending OAC meetings.
- Handling design, site preparation and construction of community housing.

Site Engineer, VGN Homes private Ltd, Chennai, India

July 2017-December 2017

- Supervising the construction of Multi-storey residential apartments and individual villas.
- Assisting in Scheduling & Estimation of projects.
- Handling RFIs, Submittals, & change orders.
- Handling sub-contractor meetings.
- Attending Owner/Architect/Construction Manager meetings.
- Daily Walk-through of project sites and supervise quality control.

Site Engineer-Intern, VGN Homes private Ltd, Chennai, India

January 2017-June 2017

- Assisting with RFIs & Submittals.
- Tracking the finance of the project.
- Inspecting the quality of construction.
- Ensuring labor & material management.
- Ensuring work place safety.

Site Engineer-Intern, Sandeep Constructions, Chennai, India

May 2016- December 2016

- Supervising labor & material management.
- Reporting the daily work flow.
- Ensuring work place safety.

RESEARCH AREAS

- Stormwater Infrastructure
- Construction Safety
- Geopolymer Concrete

PUBLICATIONS & PRESENTATIONS

- Journal Article titled Necessities, Properties, & Merits of using Geopolymer Concrete was accepted for publication in International Journal of Engineering & Advanced Technology Volume 9, Issue 9 **February 2020**
- Thesis titled Evaluating Pollutant Concentrations in Urban Streams based on Precipitation, Network of Stormwater BMPs, and Impervious Cover approved by University of North Carolina, Charlotte & published in ProQuest **December 2019**
- Poster Presentation titled Stormwater Best Management Practices Performance Monitoring & Evaluation Engineering Sustainability Conference 2019, University of Pittsburgh **April 2019**
- Poster Presentation titled Stormwater Best Management Practices Performance Monitoring & Evaluation, WRII Conference 2019, North Carolina State University, Raleigh, NC **March 2019**
- Poster Presentation titled Evaluating pollutant loads and concentrations in urban streams to forecast the use of stormwater best management practices, Graduate Research Symposium 2019, University of North Carolina, Charlotte, NC **March 2019**

AWARDS & HONORS

- Graduate Assistantship awarded by University of North Carolina, Charlotte **August 2018- December 2019**
- NSF Funds Travel Grant awarded by Engineering Sustainability Conference, University of Pittsburgh **April 2019**
- Graduate Student Grant awarded by University of North Carolina, Charlotte **August 2018**

CERTIFICATIONS

- Construction Cost Estimation & Cost Control (Coursera- Columbia University in the City of New York) **July 2019**
- OSHA 30 Construction **May 2019**
- Procore Certified Project Manager, Superintendent, Engineer, Architect **May 2019**
- Portable Nuclear Gauge Use and Safety Training, Hazardous Material D.O.T Training- Portable Nuclear Gauge **May 2019**
- Construction Manager in Training (CMIT) **February 2019**