

# Ukendran Gopi

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## EDUCATION

- **The University of Texas at Arlington** Arlington, TX  
Master of Science in Construction Engineering and Management (GPA- 3.67/4) Expected May 2021
- **Anna University** India  
Bachelor of Engineering in Civil Engineering. May 2018

## EXPERIENCE

Center for Underground Infrastructure Research and Education Arlington, TX  
**Graduate Research Assistant** May 2020 – Present

- Supervising a team of 4 people on a pipeline research project of budget \$300,000 and preparing day to day work plan.
- Developing research proposal on rehabilitation of pipeline and trenchless techniques by conducting literature review, gathering research data, and analyzing the data to better pipeline rehabilitation and installation technique.
- Managing end to end research process from working on proposal to drafting final report and tested specimens to produce reliable and precise data to support scientific investigation.
- Communicating effectively in writing and verbally with other labs and coordinated with them for testing of specimens.
- Preparing project progress reports with photos and schedule and updated it to the funding agency on weekly basis and monitored the timeline and budget of the project.

Scape Creations Madurai, India  
**Field Engineer – Construction of Residential Building of Project Value \$1 Million** May 2018 – July 2019

- Monitored the field construction and assured the compliance with scope of the project and coordinated field engineering work between different crews.
- Assisted site manager in evaluating daily production, procurement of construction materials, schedule, and budget projections to track the project performance.
- Developed, maintained, and implemented document control systems such as daily cost report, material procurement register, testing and inspection records, RFI and change order logs.
- Executing Job Hazard Analysis and organized weekly field team safety meeting and ensured 100% safety of co-workers.

Public Work Department Madurai, India  
**Design Engineer Intern – Construction of Warehouse of \$5 Million Budget** November 2017 – April 2018

- Understood the expectations of clients and rendered their demand into project deliverables in a cost-efficient method without compromising in quality and reliability.
- Analyzed, reviewed, and interpreted proposals, scope of work, and ensured the compliance of state and federal code.
- Served as a liaison between the design, construction, procurement, and inventory department to ensure the proper flow of work in warehouse construction.
- Performed site visits for inspection, maintained RFI logs and assisted in compiling contract close out documents.

## PROJECTS

### Planning, Cost Estimation and Production Analysis for Hauling of Excavated Soil – Graduate Project

- Gathered the firsthand information to determine the key variable for cost and production estimates and prioritized them.
- Determined the labor cost from RS Means and equipment cost, performance, and reliability from equipment manual.
- Evaluated and compared for the selection of the cost-effective methodology for excavation and hauling process.

### Estimation and Scheduling for Improvements in Parkwood Hills and Anderson Campbell Park – Graduate Project

- Reviewed the shop drawings, design specifications, material requirement and developed a work break down structure and prepared a comprehensive cost estimate.
- Tracked and interpreted historic cost data and applied to the project estimate to increase the accuracy of the estimate.
- Created a resource loaded master schedule with major milestones and what-if scenarios and established schedule with contingencies with the use of Primavera P6 software.

## SKILLS

- **Software:** AutoCAD, STAAD Pro, Revit, QGIS, Google Sketchup, Abaqus, Microsoft Projects, RISA 2D, E-Tabs, BIM, 3D Max, Civil 3D, Primavera, Adobe Photoshop, ArcGIS, Timberline, Microsoft Office.
- **Skills:** Project Management, Planning, Estimation, Surveying, Scheduling, Risk Management, Document Management, Field Inspection, Equipment Management, Quality Management, Communication and Negotiation.