

## **Dawit Mekonnen Asamen**

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(336)681-7237

### **PROFESSIONAL SUMMARY**

A graduate student of Civil Engineering with strong problem-solving and organizational skills knowledgeable in Transportation Engineering, Hydrologic Modeling, Building Construction and Geospatial Analysis through graduate-level research, robust coursework and work experience currently seeking for a full time position.

### **EDUCATION**

North Carolina A & T State University, North Carolina, USA

M.Sc., Civil Engineering, Current GPA: **4.0**

**August 2019 – May 2021**

Addis Ababa Institute of Technology, Addis Ababa University, Addis Ababa, Ethiopia

B.Sc., Civil Engineering, July 2017, GPA: **3.77/4.0**

**September 2012 – July 2017**

### **WORK EXPERIENCE**

**Civil Engineering Intern**, Brighton TSC of Michigan Department of Transportation, Michigan, USA

**May 2020 – July 2020**

Participated in the Transportation Diversity Recruitment Program (TDRP) hosted by MDOT

- Worked as a co-inspector on an intersection adjustment project
- Performed density tests on different roadways sections and materials
- Assisted in the supervision of a road widening and rest area maintenance project
- Prepared quantity estimates and provided support in field observation for quality compliance

**Teaching Assistant and Research Assistant**, North Carolina A & T State University, North Carolina, USA

**August 2019 - Present**

- Conducted hydrologic modeling using the newly modified Soil and water assessment Tool (SWAT+) in combination with ArcGIS and QGIS
- Assisted in the conduction of Engineering Hydrology and Fluid Mechanics Courses

**Junior Civil Engineer**, Ethiopia Construction Works Corporation, Addis Ababa, Ethiopia

*Project - Meles Zenawi Leadership Academy*

**June 2018 – August 2019**

- Supervised the construction of a project with a total cost of \$8,700,000.
- Regularly checked designs and Bill of quantity for their compliance with provided specification. modifications
- Prepared several quantity estimations works and design modifications

### **RELEVANT COURSES**

Reinforced Concrete Design  
Fundamental of Foundation Design  
Soil Mechanics  
Highway Design  
Advanced Structural Analysis

Advanced Geospatial Analysis (GIS)  
Design of Hydraulic Structures  
Transportation Engineering  
Hydraulics  
Fundamentals of Bridge Design

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### **TECHNICAL SKILLS**

AutoCAD, Microstation, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, ArcGIS, QGIS, OpenLCA, LINDO, SWAT+, ETABS.

### **CURRENT RESEARCHES** (North Carolina A&T State University)

- Analysis of the Correlation between Streambed Stability and the Median Grain size of the Streambed ( $D_{50}$ )
- Evaluating Watershed-Scale Effects of Longleaf Pine Restoration on Water Yield Using SWAT+

### **ACCOMPLISHMENTS & CERTIFICATIONS**

- Runner up on the 9<sup>th</sup> annual Graduate poster competition held at North Carolina A & T State University
- Completed 40 Hours of Hazmat Training
- Six Sigma Green Belt Certification
- Density Technology Certification

### **AFFILIATIONS**

- American Society of Civil Engineers