

# Dagem Tekolla

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## PROFESSIONAL SUMMARY

Flexible and motivated recent graduate seeking an internship/co-op/entry level job opportunity in a reputable engineering firm to further develop my technical skills through practical experience and to contribute to the success of the company.

## EDUCATION

**North Carolina State University, Raleigh, NC**  
Bachelor of Science: Civil Engineering (Structural)

*Aug. 2012 – Aug. 2017*  
*Anticipated FE exam: Summer 2019*

**Wake Technical Community College, Raleigh, NC**  
Pre-Engineering transfer program

*Jan. 2010 – May. 2012*

## RELEVANT COURSEWORK

- **Courses:** Statics, Solid Mechanics, Structural Analysis, Reinforced Concrete, Steel Design, Pavement Design, Fluid Mechanics, Geotechnical Engineering, Thermodynamics, Material Science Engineering, Construction Engineering.

## SKILLS /PROFICIENCIES

- **Languages:** Trilingual (English, French, Amharic).
- **Computer Proficiency:** AUTOCAD, SAP2000, RAM SBEAM, Microsoft Office Suite (Word, Excel, Powerpoint, Publisher), MATLAB, C++, HTML/CSS (Web Design), Fortran, Maple.
- **Operating Systems:** Windows, Linux(Ubuntu) and Macintosh.
- **Problem solving:** Ability to solve problems using a logical method.

## ACADEMIC PROJECTS

**Structural Engineering Project (Senior Design)**

*Aug. - Dec. 2016*

Given an architectural plan of a four-story office building, our task was to:

- Design the structural aspects of the building by tracing the load path
- Design the typical detailing of beams, girders, columns, connections, bracing for lateral resisting systems, the roof framing plan using joists and metal deck, the foundation plan based on a given soil bearing capacity, and using a composite floor system
- The information was presented in structural drawings using CAD softwares.

## WORK EXPERIENCE

**Freelance Tutor, Self Employed at NCSU**

*Oct. 2017 - Present 2019*

- Tutor college classes such as Engineering Statics, Solid Mechanics, Structural Analysis I, Reinforced Concrete, Physics for Scientists and Engineers I (Classical Mechanics), and French.  
Website: [www.dtytutoring.com](http://www.dtytutoring.com)

**Summer research with Dr. Christopher Bobko at NCSU**

*May - August 2014*

- Polished ceramic materials using a polishing machine by adjusting rotation speed and time.

**Supervisor, TTC Real Estate, Project Management Office, Addis Ababa, Ethiopia**

*June - Sept. 2008*

- Supervised and assisted in the construction of a four-story apartment complex
- Assisted in the purchase and transport of construction materials, oversaw construction personnel, and shadowed contractor and structural engineer.

## STUDENT ORGANIZATIONS

Member, National Society of Black Engineers (NSBE) – NCSU

*2016*

Member, American Society of Civil Engineers (ASCE), African Student Union (ASU) – NCSU

*2013*

## ACADEMIC ACHIEVEMENTS

Dean's List (NCSU)

*2013*

Baccalauréat Diploma in Science, Technology and Management (Lycée Guébré-Mariam, Ethiopia)

*2009*