Kayla Clanton

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Education:

Tennessee State University
Architectural Engineering, B.S. Graduation: May 2021
Tennessee State University
Civil Engineering, M.E. Expected graduation: December 2023

Employment Experience:

Barton Malow- Ford BOSK Glendale, KY
Project Engineer Intern Summer 2023

- Observed and identified schedule impacts on a $6 billion project constructing two battery plants for electrical vehicles
- Conducted subcontractor coordination and owner meetings, created a 4D visual aid using Synchro Software

National Renewable Energy Laboratory Nashville, TN
GEM Fellow Engineering Intern Summer 2022

- Observed and identified productivity baselines within the panelized construction industry at an autonomous, prefabrication factory and homesite development
- Created production rate summary after completing observations to gather all cycle times estimated from data collection utilizing Microsoft Excel. Performed time motion studies to access logistics in supply chain

National Renewable Energy Laboratory Denver, CO
GEM Fellow Research Intern Summer 2021

- Provided As-built drawings to supervisor of a single-family unit using Revit and ran an energy model analysis to be exported as a gbXML file
- Operated energy modeling software, EQuest, to simplify outputs of a specific modular building case to enhance the BIM to BEM workflow through manual cleanup
- Drafted a learner's guide for the manual cleanup steps needed to simplify the workflow

Student Opportunities for Advancement in Research Skills Program Nashville, TN
Research Scholar 2019 - 2021

- Created a solution in building materials and construction methods that promotes concepts of a circular economy aimed at eliminating waste and encouraging continual use of resources, such as designing for disassembly and re-use
- Designed an inexpensive green house to decrease food deserts and provide accessible food resources to residents of Nashville in low-income areas

National Science Foundation - International Research Experience İzmir, Turkey
Engineering Research Intern Summer 2019

- Performed structural analysis on an ancient city gateway in the city of Blaundos using AutoCAD and Revit
- Worked onsite to perform movement tests for later observations using a B-72 adhesive on any cracked blocks
- Collaborated on research relating to ancient buildings of Turkey and efficient building materials to find a new design for the dilapidated ancient temple façade

Relevant Skills:

Software: SketchUp, Autodesk Revit, Adobe Illustrator, EQuest, OpenStudio, Synchro4D, AutoCAD, Bluebeam Revu

Honors & Achievements:

Title III POTUS Scholar, 2022-2023
TSU STARS Fellow & Scholarship Recipient, 2022-2023
GEM Fellow, 2021-2023