

OKAI, NICHOLAS ASARE

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Education

University of Alabama at Birmingham (UAB), Birmingham, AL, U. S. A. April 2021
Master of Science in Civil Engineering (Structural Engineering); GPA 4.0

Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, West-Africa. June 2017
Bachelor of Science in Civil Engineering

Skills

Expert in Microsoft office, AutoCAD, Midas Gen V.2017

Familiar with MATLAB, Revit, Staad Pro, SAP2000, ANSYS, Autodesk Inventor, EPANET, StormCAD.

Professional Experience

Civil Engineer, KNJ Engineering Limited, Ghana. January 2019-April 2019

- Worked as a structural engineer responsible for the structural analysis and design of buildings and structures especially fuel station for affiliations such as Total Fuel Station, Shell Fuel Station, Goil Fuel Stations, et cetera.
- Provided structural detailing and drafting of structures using both AutoCAD and Revit, and responsible for structural design reviews and design of drainage system.

Civil Engineer, Freelancer. September 2018-December 2018

- Responsible for review and assessment of architectural designs and structural design layout.
- Managed and supervised of construction activities on site, ensuring it conforms to good structural integrity.

Assistant Structural Engineer, CSEng Consult Limited, Ghana. August 2017-August 2018

- Performed structural analysis and design of structures using Midas Gen V.2017 and Staad Pro and provision of structural detailing using Revit and AutoCAD.
- Engaged in structural health monitoring and integrity assessment survey works.
- Supervised construction works ensuring it conforms with design and specifications and environmental safety and standards.

Assistant Structural Engineer, Intern, Strescon Engineering Consultancy Limited, Ghana. June 2016-August 2016

- Shadowed and assisted in analysis of building, steel bridges, structural detailing, design of drainage canals.
- Assisted in review of structural detailed drawings and reinforcement of structural members to ensure they are void of technical errors
- Shadowed project management and sites inspections to monitor progress and addressing structural issues with contractors and on-site engineers

Assistant Civil Engineer, Intern, Regimanuel Gray Limited, Ghana. May 2014-August 2014

- Studied how to read structural drawings, detailing, bending schedule, and material takeoff.
 - Learned how to properly collaborate structural, mechanical, architectural, and electrical drawings.
 - Shadowed formwork supervision, falsework assistance, and panel assembly for construction works.
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Certifications

- Responding to Emergencies First Aid CPR/AED for Professional Rescuers. August 2019-August 2021
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Current Affiliations

- American Society of Civil Engineers (ASCE)
 - The Honor Society of Phi Kappa Phi
 - The Society for Collegiate Leadership & Achievement (SCLA)
 - Structural Engineering Institute (SEI)
 - Golden Key International Honour Society
 - African Students Association (ASA)
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