

# NII OTU TACKIE-OTOO

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## EDUCATION

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### Master of Science, Civil Engineering (Civil Infrastructure Systems)

August 2022 – Present

University of Delaware, Newark DE, USA

**Relevant Coursework:** Math Techniques in Data Science; Machine Learning for Public Policy; Regression Analysis; Risk Analysis, Geographic Information Systems (GIS).

### Bachelor of Science, Civil Engineering

September 2015 – May 2019

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

**Relevant Coursework:** Statistics for Engineers, Computer Programming, Numerical Analysis, Differential Equations, Highway and Transportation Engineering, Algebra, Multivariate Calculus.

## RESEARCH AND PROJECTS

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- Trend Analysis of Rainfall and Temperature Data in the Pra Basin.
- Urban Upgrading and Inner-City Development of Ayeduase Community, a suburb of Kumasi, Ghana.
- Civil Engineering in Society: Poor Road Drainage in Adweso, Koforidua.

## PROFESSIONAL EXPERIENCE

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### University of Delaware - Newark, DE, USA

September 2021 – to date

Graduate Research Assistant

### Rana Atlas Industrial Services (Atlas Copco) – Accra, Ghana

November 2021 – August 2022

Sales Engineer

- Partnered with both the engineering and sales team to develop and provide sales & marketing support activities for range of Atlas Copco air compressors and parts for the Mining, Construction and Manufacturing Industries.
- Delivered technical presentations about Atlas Copco products and services to existing and prospective customers.
- Identified new business among new and existing customers and closing deals.
- Developed sales strategies to increase clientele base.

### HILTI Ghana – Accra

January 2021 – September 2021

Civil Engineer | Technical Sales Engineer

- Worked closely with HILTI engineering and sales team on top construction projects to offer technical support in the form of design and equipment recommendation to facilitate the construction of these projects.
- Participated in design reviews to give technical advice and solutions to engineering problems.
- Delivered technical presentations on HILTI products and services to existing and prospective customers.
- Organized frequent equipment and product demonstrations and trainings.
- Identified new business opportunities among existing customers.

### Peponi Gruppe Limited – Accra, Ghana

September 2020 – December 2020

Project Engineer

- Supervised and inspected works during the construction of highway projects.
- Oversaw and coordinated the daily operations in an effective way to improve productivity.
- Ensured technical designs and drawings were followed correctly.
- Provided technical and problem-solving advice onsite.
- Ensured conformance to all health and safety guideline on site by workers to prevent injuries.

**Ghana National Petroleum Corporation (GNPC) – Tema, Ghana****September 2019–August 2020***Assistant Civil Engineer (Contract and Property Maintenance)*

- Designed and supervised general refurbishment works and other design works on GNPC properties
- Prepared weekly and monthly reports on all Facilities and Properties statuses to keep the company updated.
- Designed and supervised all works on office layout during space allocation.
- Compiled and did calculations on Bill of Quantities for GNPC tender documents for GNPC Building Projects.

**Adnak Engineering Limited - Kumasi, Ghana****June 2018 – July 2018***Civil Engineer Associate, Internship*

- Assisted Structural Engineer in creating 2D design documents and 3D structural models using AutoCAD.
- Worked on calculations for bending schedule and loads and stresses calculations on structural foundations.

**PEC Consult Limited – Accra, Ghana****June 2017 – August 2017***Junior Civil Engineer, Internship*

- Assisted Structural Engineer in tracking and reporting on project progress.
- Assisted team in preparing bids for tender.

**Antartic Contract Works – Koforidua, Ghana****June 2016 – August 2016***Site Engineer Trainee, Internship*

- Supervised workers during the construction of the National Communication Authority building in Koforidua.
- Interpreted architectural and structural drawings to construction workers.
- Prepared daily report on construction progress and make recommendations to Site Engineer.

**SKILLS**

- **Programming Languages:** Python, R, MATHLAB
- **Microsoft Office Suite:** Word, Excel, PowerPoint, Outlook
- **Engineering and Design Software:** AutoCAD, Solidworks, ArcGIS Pro
- **ERP and CRM Software:** SAP Business One

**LEADERSHIP EXPERIENCE****Executive Member (TekTalk Chairman), Students' Representative Council (SRC) - KNUST****May 2018 - April 2019**

- Coordinated the organization of the 2018/2019 KNUST SRC TekTalk Program, which hosted the former president of Ghana, H.E. Flt. Lt. Jerry John Rawlings; Hon. Benjamin Kunbour, former minister of defence; among others. **TEKTALK** is non-profit program devoted to the spreading of ideas, usually in the form of short but powerful talks aimed at the disclosure of the speakers' life stories which, aside its educational-oriented background, seeks to challenge students and get them inspired to help them make an initiation towards building purposeful lives and making right career path choices.

**Head of Sales/Financial Secretary, TakeOver Incorporated - KNUST****September 2015 – May 2019**

- Developed strategies and new sales channels which improved upon general marketing and sales for TakeOver Incorporated, an event organizing body, which saw a rise in sales of major events tickets by 778% in 13days.
- Prepared all budgets for TakeOver Inc. events and made sure they aligned with annual budget.

**Financial Secretary, United Nations Students Association - KNUST****May 2018 - May 2019**

- Prepared an annual budget for the Association which ensured the right appropriation for funds for all activities.
- Organized educative programs about the United Nations which improved upon membership numbers.

**Financial Secretary, Ghana Engineering Students Association - KNUST****April 2017 - April 2018**

- Successfully gained a 5-year long term sponsorship deal with Ecobank for all annual GESA socializing event venue and transportation fees which was first of its kind for the Association.
- Prepared a comprehensive annual budget which facilitated the organization of a lot of successful GESA programs with less than 75% of monies allocated for expenditure.