

Edward Chukwubuikem Obi-Rapu

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OVERVIEW

I am a graduate student at the University of Florida, pursuing a degree in Sustainable Construction Engineering. My research interests lie in applying human-robot collaboration in construction, focusing on understanding workers' perspectives. I am interested in the future of construction work and workers, including organizational structures and related areas. I aim to become a faculty member and consultant for the construction industry, embodying the Scholar-practitioner approach. With my skills and experience, I am dedicated to significantly contributing to the construction industry's sustainability.

EDUCATION

University of Florida, Gainesville, Florida 2023 ~ 2027
Ph.D. in Civil Engineering

University of Benin, Benin City, Nigeria. 2015 ~ 2021
B. Eng. Civil Engineering
Thesis topic: *Application of Emerging Technologies in Traffic Management*

ACADEMIC EXPERIENCE

Research Assistant, University of Florida Jan 2023 ~ Present
Workforce Development in Construction/Civil Engineering
(Simmons Research Lab)

- Conducting extensive literature reviews on the subject of human-robot collaboration in the construction industry, specifically focusing on the workers' perspective.
 - Assisting in the design and implementation of research methodologies, including surveys, interviews, and field observations.
 - Collaborating with a multidisciplinary and institutional team of researchers to further understanding of Human-robot Collaboration.
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TEACHING EXPERIENCE

Teaching Assistant, Ebonyi State University 2021/2022
CVE323 | Fluid Mechanics in Civil Engineering
CVE351 | Strength of Material II
CVE322 | Engineering Hydrology
CVE352 | Structural Mechanics I

- Collaborated with faculty members to design assignments and project works for the aforementioned courses.
- Conducted classroom instruction and facilitated engaging discussions in the assigned semesters.
- Demonstrated a strong commitment to student success by holding weekly office hours, providing academic support, and addressing student inquiries.
- Assessed and evaluated student performance through the thorough grading of assignments and exam papers.

Chemistry Tutor

Sep 2021 ~ Dec 2022

- Provided personalized tutoring sessions to undergraduate applicants preparing for their certification examination in Chemistry, tailoring the sessions to address specific areas of struggle.
- Developed comprehensive lesson plans and study materials to enhance understanding and retention of key concepts, accommodating different learning styles and promoting student engagement.
- Conducted regular assessments to track student progress, offering guidance and support to build confidence and improve problem-solving skills.

PROFESSIONAL EXPERIENCE**Project Manager, VIO Luxury Homes**

Nov, 2021 ~ Jan, 2022

- Oversaw the construction of a multi-million Naira outdoor relaxation center, ensuring efficient project execution from initiation to completion.
- Introduced and implemented work breakdown schedules and critical paths in construction management, optimizing project planning and resource allocation.
- Successfully delivered the project within the designated timeframe and significantly below the allocated budget.

Structural Engineer, University of Benin

Aug 2019 ~ Jan 2020

- Supervised all construction activities within the University, ensuring compliance with established standards and regulations.
- Undertook tasks related to reinforced concrete design and steel truss design, contributing to the structural integrity of various projects.
- Conducted daily site inspections to ensure quality assurance and control of all on-site works, addressing any issues or deviations promptly.

Quality Assurance and Quality Control Officer,

Julius Berger Nigeria PLC

Jan 2019 ~ Mar, 2019

- Worked on the rehabilitation and expansion of the Lagos-Sagamu Expressway, the busiest road in West Africa.
- Assigned to the project's Quality Assurance and Quality Control Department, overseeing various aspects of construction to ensure compliance with quality standards.
- Supervised sub-contractors involved in the construction of trapezoid drainage, conducted road surface regularity checks, and performed MDD tests.
- Spent a month in the Quantity Survey department, actively contributing to the preparation of the monthly Report of Works.

PUBLICATION

Osamuyi Osasu and Edward Obi-Rapu (2021), "Intelligent Transportation System Simulation for Traffic Management in Urban Transportation Planning Process" NIPES Journal of Science and Technology Research Volume 3(2) p.205 - 210 pISSN-2682-5821, eISSN-2682-58 https://nipesjournals.org/wp-content/uploads/2021/09/NJSTR_2021_5_23.pdf

AWARDS

Federation of Construction Industry, Award of Excellence	2022
University of Benin, Scholar's prize 2018/2019	2020
Jim Ovia (MUSTE), Undergraduate Scholarship Award	2019

Federation of Construction Industry, Scholarship Award	2017
Federal Government, Undergraduate Scholarship Award	2017
Agbami, Undergraduate Student Scholarship Award	2016

LEADERSHIP EXPERIENCE

President, National Youth Service Corps (NYSC) SDG Group	2022
COVID-19 Vanguard, NYSC Ebonyi State Camp	2022
Panelist, Civil Engineering Law Practice, University of Benin, Nigeria.	2021
Class Representative, Advanced Structural Engineering Course.	2019 – 2021

VOLUNTARY ACTIVITIES

Platoon representative, NYSC orientation camp, Ebonyi State.	2022
Member of the Sustainable Development Goals, Ebonyi State.	2022
Facilitator, AutoCAD Design, CODESIGN CAMP 1.0 & 2.0	2018 & 2019

REFERENCES

Available on Request