**MARIAM A. TOMORI**

Civil Engineer | Construction Manager | Researcher

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**PROFESSIONAL SUMMARY**

Experience in directing the workflow of road construction, structures and concrete works. Proficient in design, drafting, cost estimation, procurement and presentations. Passionate about emerging technologies, workforce development, and artificial intelligence.

**EDUCATION**

**PhD. in Building Construction,** *Georgia Institute of Technology, GA, USA*. 2023-2024

**Master of Engineering in Civil Engineering,** *University of Ilorin, Kwara State Nigeria* 2017-2020

**MBA in Production and Operation Management,** *Kwara State University, Malete, Nigeria* 2017-2019

**Bachelor of Engineering in Civil Engineering,** *University of Ilorin, Ilorin, Kwara, Nigeria*. 2010-2015

**RESEARCH INTEREST**

Automation, Robotics, Workforce Development, Construction Safety, Artificial Intelligence, Sustainable Construction Materials

**RESEARCH EXPERIENCE**

**Graduate Research Assistant,** *Georgia Institute of Technology, Atlanta, GA* 08/2023 – Present

* Focus: Robotics, Workforce Development, Sensing, Automation, Safety

**Graduate Research**, *Department of Civil Engineering, University of Ilorin*

* Reliability analysis of plastic bottles sandcrete masonry as concrete framed infilled panel
* The effects of pozzolan materials on the compressive strength of self-compacting concrete.

**Undergraduate Research,** *Department of Civil Engineering, University of Ilorin*

* Assessment of early compressive strength of self-compacting concrete (SCC) using different Cement.
* Effect of Pozzolans, Palm Kernel Shell as a Partial Replacement of Cement in Concrete.
* Causes and Remedies of Structural Failure in Buildings (Case study in Kwara State)

**RESEARCH PROJECTS**

* Design and Develop Machine learning models for adaptive real time exoskeleton, and learning apps
* Design, and Development of Construction technologies learning app for students

**TEACHING EXPERIENCE**

**Graduate Teaching Assistant;** *Georgia Institute of Technology, Atlanta, GA* 08/2023 – Present

* Assisted in teaching BC 2610 and BC 2620 Construction Technology courses.
* Supported instruction through lab sessions, lectures, grading, assignments, office help hours
* Mentoring master’s and undergraduate students in construction technologies and digital tools

**Teah Talk, Workshop, and Informal Teaching**

* Delivered summer camp demonstrations for high school students, in construction technologies and robotics. July 2024
* Led industry training workshops on wearable robotic exoskeletons for professionals at: July 2024
  + Brasfield & Gorrie; McCarthy Building Companies; Juneau Construction
  + NAWIC (National Association of Women in Construction) Conference

**Tech Teacher (NYSC)** *Nigerian Defence Academy, Kaduna State* 2015- 2016

* Taught technology fundamentals and drafting

**INDUSTRY EXPERIENCE**

**Digital Asset Merchant,** *Binance, Nigeria*  2021 -2023

* Attending to over 200 customers that wish to buy and sell their digital assets. •
* Demonstrated strong communication, organizational and time management skills while managing multiple customers.
* Identified issues, analyzed information and provided solutions to customers.

**Civil Engineer,** *Dagasteel International Ltd, Abuja, Nigeria* 03/2020 – 03/2021

* Monitored execution of #900-million-naira residential work for compliance with design plans and specifications.
* Estimated quantities and material costs.
* Procurement of construction materials for contractors.

**Project Engineer,** *Duravil Engineering Ltd, Ilorin, Kwara State*2017- 2019

* Supervised construction of 16Km Ilesha Baruba to Gwanara road construction, Kwara State.
* Supervised construction of 16Km Oke ode to Shaare road construction, Kwara state
* Geri Alimi bridge Underpass Construction, Ilorin.
* Ensuring that necessary sample tests are conducted on concrete, earthwork and bitumen.
* Represented the managing director during visit of compliance monitoring team from the state and local agencies

**Internship Engineer,** *Allied Professionals Ltd, Offa, Kwara State.* 2014-2015

* Designed and Constructed 13 Blocks of One- bedrooms Apartment, Health Tech, Ojoku road, Offa
* Designed of Residential working drawings, Architectural and Structural drawing using AutoCAD, Orion, and other software.
* Materials testing and site supervision at Unilorin

**Internship Engineer,** *Yolas Consultants Ltd — Abuja, Nigeria* 07/2013 – 03/2014

* Supervised Road B29 and Abuja City gate in conjunction with FCDA Abuja

**SKILLS**

* CAD/Engineering Software: AutoCAD, CSC Orion, Revit, Navisworks, ASTA Power Project, ETAB, Civil3D, CivilCAD
* Data Analysis: Excel, SPSS; R studio
* Project Tools: MS Project, Cost Estimation, Scheduling
* Programming: MATLAB, C#, Python
* Technologies: Laser Scanner, Drones, Spot Robots, Wearable Robots, Sensors

**PUBLICATIONS (More publications on Google Scholar)**

* Tomori, M., Ogunseiju, O., & Nnaji, C. A Review of Human-Robotics Interactions in the Construction Industry. ASCE Construction Research Congress 2024 (pp. 903-912)
* Tomori, M. A., Ogunseiju, O. R., Tummalapudi, M., & Bangaru, S. Towards Personalized Learning Environments: Using Machine Learning to Predict Students' Learning Preferences in a Mixed Reality Environment, 2024 IEEE Frontiers in Education Conference (FIE).

**CONFERENCE & CERTIFICATES**

* ASCE CRC & ICTD 2024 | RED Conference 2024 | FIE Conference 2024
* World Engineering Conf. on Sustainable Infrastructure 2014
* Tech to Teaching Program, CIRTL, Georgia Tech, 2025
* 1st Pan – Africa Students Parliamentary Conference 2014
* Corporate Ethic, Human Relation and Entrepreneurship Skills 2012

**PROFESSIONAL ASSOCIATION/BODIES**

* USA: NAWIC, ASCE, NSC, NSBE,
* NIGERIA: COREN, Nigerian Society of Engineers, Nigerian Institution of Civil Engineers, APWEN

**VOLUNTEERING & OUTREACH SERVICES**

* Georgia Tech CEISMIC Summer Camp (Summer 2024) demo for high school girls.
* STEM Outreach: Engaged with Middle Grades Discover Georgia Tech (Fall 2023); and Addison Elementary STEM Night; and Morningside Elementary (Spring 2024)
* Student Union Senator Representing Faculty of Engineering, Unilorin, (2014/2015).
* Member, Happiness Iloba Foundation (a non-governmental organization, (2016/2017).

**EDITORIAL SERVICES**

* Editorial Adviser, Journal of Research Information in Civil Engineering 2024– Present
* Regional Editor, Journal of Research in Engineering Technology 2024– Present
* Editorial Assistant, Nigerian Journal of Technological Development 2025– Present

**AWARDS AND HONORS**

* Trained and mentored women and youth in entrepreneurship 2016
* Outstanding P2P Binance Merchant 2022
* SASBE Conference Award 2024