

Temitope O. Akanbi, Ph.D., PMP

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Passionate construction professional with experience developing innovative course materials and academic programs to promote student growth and achievement. Serves culturally diverse students, with expertise in the development, implementation, evaluation, and continuous improvement of challenging and inspiring curricula. Dedicated education advocate, successful in revamping courses and lectures geared towards increasing student success as a Teaching Assistant.

Teaching Interests: Construction Management / Construction Technology / Sustainability / Civil Engineering / Building Engineering / Project Management / Cost Estimating / Scheduling

Core Competencies: Academic Development / Student Success / Course Development / Lecturing / Performance Improvements / Program Management / Curriculum Improvements / Relationship Building / Online Learning

Technical Skills: Microsoft Office (Word, Excel PowerPoint), AutoCAD, Revit, Primavera P6, SAGE

Education

Doctor of Philosophy in Technology (Construction), Purdue University, 2021

Dissertation/Area of Focus: IFC-Based Systems and Methods to Support Construction Cost Estimation

Master of Science in Project Management (Sustainability), Northwestern University, 2015

Master of Science in Construction Management, University of Lagos, 2012

Bachelor of Science in Building Engineering, University of Lagos, 2005

Teaching Experience

University of Toledo, Toledo, OH.

Assistant Professor

2022 to Present

- Instructor for Contracts and Specifications
- Instructor for Construction Estimation

PURDUE UNIVERSITY, West Lafayette, IN

Teaching Assistant

2018 to 2021

- Played an integral role in creating the course curriculum, teaching lab sessions and projects on estimation, and designing lab sessions and projections.
- Leveraged exceptional communication to guide lectures and drive student development; administered grades to identify areas for improvement.

Western Michigan University, Kalamazoo, MI.

Teaching Assistant

2016 to 2018

- Assisted Dr. Jiansong Zhang in developing innovative curriculum to streamline student success and development.

Continued...

- Constructed strategic course materials and syllabi to maintain consistent alignment with program objectives.

Industry Experience

KEO & ASSOCIATES, Detroit, MI

Project Manager

2018 - Present

Real Time Crime Centre, Detroit

2019 – 2021

The Real Time Crime Centre project was a design-build project of the Detroit Police Department, Real Time crime Centre to provide professional design and engineering, including full technology integration (hardware and software), furniture, fixtures, and equipment with a total budget of \$7M. I was involved in all aspects of the projects during the design, planning, solicitation, and execution phases; the project was in two phases. I ensured conformance on all levels with the project - scope, cost, time, quality, and safety. I served as the primary conduit for all change orders, correspondence associated with any contract that supports the project, functioned as the primary contact with owner representatives and internal team members, reviewed and approved contractor's progress payment applications and refined the cash flow for the construction phase of the project to reflect the construction schedule and schedule of values.

Thea Bowman Building Renovation

2019 – 2021

The Thea Bowman Building Renovation was a design-build project to provide renovations and necessary improvements to an 18,800-sf building. I ensured and maintained alignment with the scope of work (SOW) and other related contract documents for the Advantage Health Centre with a project budget of \$3.5M. I also oversaw all aspects of construction such as change orders, design, site visits, inspections, permits, scheduling, daily oversight of the subcontractors, evaluated team performances and resource allocation. I successfully implemented the control systems to drive quality assurance and project success, while drafting program reports for clients' review.

Huber Roof Replacement

2019 – 2020

The Huber roof replacement project was a project to remove designated mechanical equipment, remove existing coal tar pitch roofing systems from selected areas of the rooftop of the Detroit Water & Sewerage Department (DWSD) and install new EPDM roofing systems. I responsible for selecting subcontractors, maintaining critical path schedules, updating the master schedule, drafting the scope of work & contract packages, preparing the APP, implementing weekly toolbox talks, evaluating contractor performances, and implementing the control systems.

Henry Ford Cancer Building

2018 – 2019

The Henry Ford Cancer Building was an \$100M ground up construction cancer center building project by Henry Ford Hospitals. I served as the Project Engineer on this project and was responsible for drafting RFIs, generating transmittals, tracking submittal logs, ensuring products were delivered according to contract specifications, participated in pull planning, drafted project reports and project status reports.

Kemeny Recreation Centre

2018 – 2018

The Kemeny Recreation Center was a project for the renovations/necessary improvements to provide a 10,000-sf gymnasium and locker additions to the Kemeny Recreation Centre in Detroit. The project cost was \$9.8M which included a new roofing system (30,500-sf), architectural improvements, new electrical and mechanical systems, and etc. I was involved in all aspects of the projects during the design, planning, solicitation, and execution phases; the project was in two phases. I ensured conformance on all levels with the project - scope, cost, time, quality, and safety. I served as the primary conduit for all change orders, correspondence associated with any contract that supports the project, functioned as the primary contact with owner representatives and internal team members, reviewed and approved contractor's progress payment applications and refined the cash flow for the construction phase of the project to reflect the construction schedule and schedule of values.

SYMMETRIC LLC, Chicago, IL

Project Manager

2015-2016

Homewood Suites Renovation

The Homewood suites renovation project involved the renovation of the 233 guest suites by Hilton in downtown Chicago. The project cost was \$9M and work included architectural renovations and the provision of fixtures & equipment. I oversaw all aspects of construction such as change orders, design, site visits, inspections, permits, scheduling, daily oversight of the subcontractors, evaluated team performances and resource allocation. I successfully drove client satisfaction by drafting progress reports and communicating any issues during construction.

REDBRICK HOMES INT'L LTD, Lagos, NG

Project Manager

2005-2014

Amen Estate

Amen Estate is a \$1B development of Redbrick Homes International Limited in Nigeria providing high-end live-work-play community in Lagos. I was responsible for directing and managing all aspects of construction operations to achieve 200 high-end luxury, residential properties. I actively acquired all needed project materials, permits, and inspections needed to maintain adherence to safety codes, while evaluating site performance and ensuring compliance with project objectives.

Professional Development & Certifications

Project Management Professional (PMP), Project Management Institute

CQCM for Contractors (USACE QC Certificate), US Army Corps for Engineers

OSHA 30-Hour Construction (OSHA 10), OSHA-Safety-Training.com

Procore Certifications: Project Manager (Core Tools, Field Productivity, Project Management, Quality & Safety), Procore Technologies

Publications

- Akanbi, T., and Zhang, J. (2019). "Automated wood construction cost estimation" *Proc., 2019 ASCE Intl. Workshop on Comput. in Civ. Eng., ASCE*, Reston, VA., 141-148.
- Akanbi, T., Zhang, J., and Lee, Y-C. (2019). "Automated Item Matching and Pricing (IMP) for Wood Building Elements to Support BIM-Based Wood Construction Cost Estimation" *Proc., 2019 ASCE Intl. Workshop on Comput. in Civ. Eng., ASCE*, Seattle, WA., 402-409.
- Akanbi, T., and Zhang, J. (2020). "Automated Design Information Extraction from Construction Specifications to Support Wood Construction Cost Estimation" *Proc., 2020 ASCE Intl. Workshop on Comput. in Civ. Eng., ASCE*, Tempe, AZ., 658-666.
- Akanbi, T., Zhang, J., and Lee, Y-C. (2020). "Data-Driven Reverse Engineering Algorithm Development Method for Developing Interoperable Quantity Takeoff Algorithms Using IFC-Based BIM" *J. Comput. Civ. Eng.*, 34(5): 04020036.
- Akanbi T., and Zhang, J. (2020). "Design Information Extraction from Specifications to Support Construction Cost Estimation Automation" *Automation in Construction*, 131 (2021):103835
- Akanbi T., and Zhang, J. (2020). "Framework for Developing IFC-Based Documentation from 2D Bridge Drawings" *J. Comput. Civ. Eng.*, accepted
- Akanbi, T., and Zhang, J. (2022). "Semi-automated generation of 3D bridge models from 2D PDF bridge drawings." *Proc., ASCE Construction Research Congress*, ASCE, Reston, VA, accepted.
- Akanbi, T., Wong Chong, O., and Zhang, J. (2022). "Semi-automated conversion of 2D orthographic views of wood building components to 3D information models." *Proc., ASCE Construction Research Congress*, ASCE, Reston, VA, accepted.
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Professional Affiliations

- Associate Member**, America Society of Civil Engineers, 2021. 000011570916
- Member**, Construction Management Association of America, 2018
- Member**, Construction Research Congress (CRC)
- Member**, ASCE Data Sensing and Analysis (DSA) Committee
- Member**, Visualization, Information Modeling, and Simulation (VIMS) Committee
- Reviewer**, Journal of Computing in Civil Engineering