
Eric Ohene, PhD, PMP

1300 30th St. Boulder CO | ericohene50@gmail.com | +1 720 691 6651 | linkedin.com/in/ericohene

Professional Summary

Experienced construction and facilities professional with a strong background in construction management, building systems, and performance optimization. Proven ability to manage complex building operations, oversee maintenance and capital projects, and ensure compliance with safety, sustainability, and regulatory standards

Education

PhD in Construction Engineering and Management , Hong Kong Polytechnic University, Hong Kong	July 2024
MSc in Construction Management , Kwame Nkrumah University of Science and Technology, Ghana	Feb 2020
BSc in Quantity Surveying and Construction Economics , Kwame Nkrumah University of Science and Technology, Ghana	July 2018

Core Competencies

- Construction and Facilities Management
- Project and Program Management (PMP)
- Quantity Surveying and Cost Control
- Capital Projects and Retrofit Delivery
- Building Systems and Energy Performance
- Stakeholder and Client Engagement
- Budgeting, Scheduling and Risk Management

Professional Experience

Postdoctoral Associate , University of Colorado Boulder	Nov 2024 – Present
<ul style="list-style-type: none">• Lead researcher on net-positive window innovations and DC-powered buildings.• Technical Manger - Prepare technical reports and decision-support materials for Renew American Non-Profit program.• Assisting in teaching Construction and Civil Engineering courses.• Prepare technical reports and decision-support materials for owners and partner organizations.	
Project Manager / Quantity Surveyor , Construction Engineering Projects, Ghana	2018 – 2020
<ul style="list-style-type: none">• Managed medium-scale building construction projects from preconstruction through completion• Prepared detailed cost estimates, bills of quantities (BOQs), and tender documentation.• Supervised on-site construction activities, coordinating subcontractors, suppliers, and consultants.• Liaised with regulatory authorities to ensure compliance with local codes and standards.	
Construction Management Intern , Construction and Development Projects, Hong Kong	2021 – 2022
<ul style="list-style-type: none">• Supported project managers in planning, scheduling, and site coordination for building projects.• Assisted with progress tracking, contractor coordination, and site inspections.• Reviewed drawings, specifications, and quantity take-offs.• Supported cost control and reporting activities.	
Quantity Surveying / Construction Intern , Building Construction Projects, Ghana	2017 – 2018

- Assisted with quantity take-offs, cost estimates, and bills of quantities.
- Supported site supervision, measurements, and progress reporting.
- Helped prepare tender documents and variation assessments.
- Coordinated with site engineers, suppliers, and subcontractors.

Professional Certification and Affiliations

- **Certified Project Management Professional (PMP)** 2020 - Present
- **Member**, Project Management Institute (PMI), USA 2019 - Present
- **Faculty Network Member**, American Concrete Institute (ACI), USA. 2019 - Present
- **Member**, American Society of Civil Engineers (ASCE), USA 2019 - Present
- **Member**, Ghana Institute of Construction, GHANA 2019 - Present

Selected Technical and Industry Projects

- Commercial Building Window Retrofit Optimization
- DC-Powered Building Readiness Assessment
- Energy and Water System Retrofit Feasibility Studies
- Net-Zero and High-Performance Building Strategy Development
- Renew American Non-profit facilities project
- Academic facilities renovation and refurbishment

Teaching Experience

Ass. Course Instructor, University of Colorado Boulder, Department of Civil, Environmental and Architectural Engineering Nov 2024 – Present

- Assist in teaching graduate courses in architectural engineering
- Guide students project works
- Mentor students and provide academic support

Teaching Assistant, Hong Kong Polytechnic University, Faculty of Construction and Environment Jan 2022 – Aug 2024

- Designed a course project for undergraduate students in construction
- Lectured and supervised students during the project works
- Assessed and graded students' project assignments
- Received an average student evaluation score of "Excellent"

Teaching Assistant, Kwame Nkrumah University of Science and Technology, Department of Construction Technology and Management Sept 2018 – Aug 2020

- Assisted with course delivery and facilitated classroom activities
- Graded assignments, projects, and exams, ensuring fair and consistent assessment
- Provided academic support to students and helped with course material comprehension

Research Experience

Co-Investigator, Development of zero energy windows for US commercial buildings, University of Colorado Boulder Nov 2024 – Present

- Ongoing National Science Foundation NSF-funded project for energy-efficient windows
- Published and present findings in journals and international conferences
- Collaborate with faculty across departments to enhance research outcomes

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- Co-Investigator, Built Environment factors affecting wayfinding for older adults with dementia**, Hong Kong Polytechnic University Sept 2024 – Nov 2024
- Ongoing project at proposal stage
 - Contributed to grant proposal development (methodology)
- Co-Investigator, Relationship between travel behavior and built environment factors: impacts on mobility and quality of life of people with physical disabilities**, Hong Kong Polytechnic University July 2024 – Nov 2024
- Ongoing project funded by Public Policy Research Scheme of the Hong Kong government
 - Project leader and supervisor of research assistants
- Principal Investigator, Strategies for net zero carbon buildings**, Hong Kong Polytechnic University Jan 2021 – Dec 2023
- Completed PhD Dissertation
 - Published research outcomes and presented findings in conferences

Grant Proposals

- Co-Investigator, Built Environment factors affecting wayfinding for older adults with dementia**, Hong Kong Polytechnic University October 2024
- Funding Source: Hong Kong Research Grants Council (RGC)
 - Amount: 1.4 million Hong Kong Dollars
- Principal Investigator, Impacts of retrofitting water distribution systems within buildings using pressure-independent control solutions**, University of Colorado Boulder April 2025
- Funding Source: Building Energy Smart Technology (BEST) Center

Peer-review publications

- Ohene, E., Chan, A. P., and Darko, A. (2022).** Review of global research advances towards net-zero emissions buildings. *Energy and buildings*, 266, 112142. 2022
<https://doi.org/10.1016/j.enbuild.2022.112142>
- Ohene, E., Hsu, S. C., and Chan, A. P. (2022).** Feasibility and retrofit guidelines towards net zero energy buildings in tropical climates: A case of Ghana. *Energy and Buildings*, 269, 112252. 2022
<https://doi.org/10.1016/j.enbuild.2022.112252>
- Ohene, E., Chan, A. P., and Darko, A. (2022).** Prioritizing barriers and developing mitigation strategies toward net-zero carbon building sector. *Building and Environment*, 223, 109437. 2022
<https://doi.org/10.1016/j.buildenv.2022.109437>
- Ohene, E., Chan, A. P., Darko, A., and Nani, G. (2023).** Navigating toward net zero by 2050: Drivers, barriers, and strategies for net zero carbon buildings in an emerging market. *Building and Environment*, 242, 110472. 2023
<https://doi.org/10.1016/j.buildenv.2023.110472>
- Ohene, E., Krarti, M., Chan, A. P., Hsu, S. C., and Ansah, M. K. (2024).** Optimal design guidelines for net zero energy residential buildings in cooling-dominated climates: Case study of Ghana. *Building and Environment*, 111685. 2024
<https://doi.org/10.1016/j.buildenv.2024.111685>
- Ohene, E., Nani, G., Antwi-Afari, M. F., Darko, A., Addai, L. A., and Horvey, E. (2024).** Big data analytics in the AEC industry: scientometric review and synthesis of research activities. *Engineering, Construction and Architectural Management*. 2024
<https://doi.org/10.1108/ECAM-01-2024-0144>

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- Debrah, C, Chan, A. P., Darko, A., Ries, R. J., **Ohene, E.**, and Tetteh, M. O. "Driving factors for the adoption of green finance in green building for sustainable development in developing countries: The case of Ghana." *Sustainable development* 32, no. 6 (2024): 6286-6307. <https://doi.org/10.1002/sd.3022> 2024
- Ohene, E.**, Chan, A. P. C., Krarti, M., and Debrah, C. (2024). Driving Sustainable Building Solutions: Exploring Business Model Innovations for Delivering Net-Zero Carbon Buildings. In *Applied Research Conference in Africa* (pp. 93-106). Springer, Cham.<https://doi.org/10.1007/978-3-031-65369-8-7> 2024
- Ohene, E.** (2024). Implementation strategy and guidelines for net zero carbon building in an emerging economy. *theses.lib.polyu.edu.hk*. <https://theses.lib.polyu.edu.hk/handle/200/13136> 2024
- Debrah, C., Chan, A. P., Darko, A., Owusu-Manu, D. G., and **Ohene, E.** (2024) "Green Finance." *Rethinking Pathways to a Sustainable Built Environment*, 277. <https://doi.org/10.1002/sd.3022> 2024
- Yung, H. K., Ogungbile, A., **Ohene, E.**, Fan, Y., Wang, S., and Yim, C. (2024). IMMERSIVE GREEN SPACE AND EMOTIONAL BENEFITS FOR OLDER PEOPLE LIVING IN RESIDENTIAL CARE HOMES FOR ELDERLY (RCHES). *Innovation in Aging*, 8(Suppl 1), 1352. 2024
- Debrah, C., **Ohene, E.**, Weerasinghe, L. N. K., Darko, A., and Chan, A. P. (2025). Green building practices: integrating sustainability into construction projects. In *Digital Transformation in the Construction Industry* (pp. 165-186). Woodhead Publishing. 2025
- Ohene, E.**, McGehee, D. M., and Krarti, M. (2025). Quantifying energy benefits from window improvement strategies for commercial buildings. *Energy and Buildings*, 116239. 2025

Conference Presentations

- Ohene Eric** and Krarti Moncef. Impact on energy usage of retrofitting water distribution within buildings with pressure-independent solutions including typical human behavior. *Building Smart Energy Technology - Industry and Academic Board Meeting, NYC 2025*. 2025
- Ohene Eric**, Chan P. C. Albert, Krarti Moncef, and Debrah Caleb. Driving sustainable building solutions: Exploring Business Model innovations for delivering net-zero carbon buildings. *Ghana Green Building Conference 2023*. 2023
- Ohene Eric**, Chan P. C. Albert, Darko Amos, and Addai Lydia (2023). Constraints to net zero carbon buildings development and strategies to enhance implementation: An international perspective. *AUBEA Conference, New Zealand*. 2023
- Greenbuild International Conference and Expo**, Washington D.C., USA. US Green Building Council (USGBC), September 2023. 2023
- Project Management Institute (PMI)** Hong Kong Asia Pacific Project Management Congress 2021, Hong Kong. 2023

Book Chapters

- Ohene Eric**, *Green Building Practices: Integrating Sustainability into Construction Projects*. Book title: *Digital Transformation in Construction Industry*, Elsevier 2024 2024
- Debrah, C.,... and **Ohene Eric**. *Green Finance: A Tool for Financing Green Building Projects*: Book title: *Rethinking Pathways to Sustainable Built Environment* 2022

Personal Project

- Content creation
- Photography and videography
- Social media and website management
- Academic and industry project reviews