

Mohammad Hosseini
Architect- Energy expert

Ålesund, Norway
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Educations

From 2021 November	PhD Candidate Norwegian University of Science and Technology (NTNU) <i>Smart buildings, Energy systems, Climate resilient infrastructure</i>
Graduated in 2021	M.Sc. in Energy Efficient and Environmental Building Design Lund University <i>Master thesis: (In cooperation with LKAB Wassara [Sweden] and Brightcore Energy [NY]) A reverse data-driven energy estimation approach to evaluate geo-energy in NYC</i>
Graduated in 2008	B.Sc. in Architecture Islamic Azad University of Mashhad <i>Bachelor thesis: Office building- Sustainable oriented design</i>

Professional Experience

2021-Present	Doctoral Researcher Teacher Norwegian University of Science and Technology Engineering Faculty NTNU.no
2016-2019	Development and Construction Manager E.N Services and Logistic Company (<i>Construction and Investment</i>) Owned by E.N Bank (IRAN) slen.ir
2014-2016	Project Manager Abnie Gostar Karafarin Company (<i>Construction and Investment</i>) Owned by Karafarin Bank (IRAN) karafarinbank.ir
2010-2014	Design Coordinator Architectural Specialist Moallem Construction Company (<i>Construction and Investment</i>) Owned by the Ministry of Education (IRAN) moallemgroup.com
2005-2010	Technical Office Specialist SAYOL Construction Company (<i>Building and Road Contractor</i>) Private Sector sayol.ir

Core Competencies

- Parametric Modeling, Study, and Design
- Design Thinking Methodology
- Data Analysis
- Digital modelling

Computer Skills

- Python programming (computational science and engineering)
- Energy modelling: Ladybug tools, Grasshopper
- Computational Design: Rhino3D | Grasshopper + ghPython
- Graphic Software: Photoshop - InDesign - CorelDraw

Language: Persian (Native) - English (Proficient) - Norwegian (Conversational) - Swedish (Beginner)

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Voluntary Activities

2022-Present	TRIDENT- Organization for PhDs and PostDocs at NTNU in Ålesund <i>Chairman</i>
2023-Present	Innovation Bootcamp Ålesund <i>Methodology mentor, Organizer</i>
2020-2022	Engineers Without Borders Sweden <i>Helsingborg local organization finance deputy</i>
2020	SI-Leader at Lund University

Teaching Experiences

2022-Present	Smart and Sustainable Buildings [Tredjeårsemner, nivå III] <i>Lecturer – NTNU</i>
2023	Introduction to smart water and environmental engineering [Høyere grads nivå] <i>Teacher assistant - NTNU</i>
2022	Python for undervisere: Anvendt programmering [Videreutdanning høyere grad] <i>Teacher assistant - NTNU</i>
2020	Building physics and Moisture Safety Design [Master degree level] <i>Teacher Assistant - Lund University</i>

Academic Publications

2024	Enhancing climate resilience in buildings using Collective Intelligence: A pilot study on a Norwegian elderly care center [DOI]
2023	CIRLEM: a synergic integration of Collective Intelligence and Reinforcement learning in Energy Management for enhanced climate resilience and lightweight computation [DOI]
2022	Improving climate resilience and thermal comfort in a complex building through enhanced flexibility of the energy system [DOI]
2022	Collective Intelligence Function in Extreme Weather Conditions: High-Resolution Impact Assessment of Energy Flexibility on Building Energy Performance [DOI]
2022	High-resolution impact assessment of climate change on building energy performance considering extreme weather events and microclimate – Investigating variations in indoor thermal comfort and degree-days [DOI]

References

Razak Seidu

Professor (main supervisor)

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Ocean Operations and Civil Engineering

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Vahid Nik

Professor (co-supervisor)

Department of
Building and Environmental Technology

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Anne Seth

Innovation leader

Department of
Ocean Operations and Civil Engineering

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