

Daud Nosham (website)

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Academics

<u>Ph.D. Architectural Engineering (Cont.)</u> University of Nebraska Lincoln NE USA	2021 - 2025
<u>M.S. Architectural Engineering</u> University of Nebraska Lincoln NE USA <i>Thesis: Seasonal Comparison of Air Quality Variables and Evaluation of CO₂ and Particulate Measurement Period in Classrooms"</i>	2022 - 2024
<u>B.Sc. Mechanical Engineering</u> University of Engineering & Technology, Lahore, Pakistan <i>Final Year Design Project: Design and Fabrication of magnetic field source for a magnetic refrigerator</i>	2013 - 2017

Experiences & Internships

Research & Teaching

<u>Ph.D. Intern – HPCDC Facility Operations</u> National Renewable Energy Laboratory, Golden, CO.	Aug 2024 to Date
<u>Graduate (Summer) Intern - HPCDC Facility Operations</u> National Renewable Energy Laboratory, Golden, CO.	June 2024 – Aug 2024
<u>Graduate Teaching Assistant</u> Course: Building Energy II – Primary and Secondary Systems	Aug 2024 to Date
<u>Graduate Research Assistant</u> The efficacy of air filters in classrooms on student academic and learning outcomes Project – Nebraska Department of Education (NDE)	Jan 2022 to May 2024
<u>Graduate Teaching Assistant</u> Course: Building Energy II – Primary and Secondary Systems Role: Assisting in preparing & grading assignments and delivering some of the class lectures.	Aug 2021 to Dec 2021

Practical

<u>Mechanical Engineer – Operations & Projects</u> Forman Christian College (A Chartered University), Pakistan. <i>Job Responsibilities:</i> <ul style="list-style-type: none">- Design review, installation, testing & commissioning of Building Services equipment including but not limited to HVAC, water supply, drainage, firefighting system, and elevators- Technical supervision of all HVAC & MEP projects in building construction- Providing consultation to the operations department in technical matters and troubleshooting- Operation and maintenance of diesel generators- Assisting and advising management in other technical projects (Solar power projects, electrical master planning, etc.)	July 2020 to June 2021
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Operations & Maintenance Engineer

July-2018 to July 2020

Forman Christian College (A Chartered University), Pakistan.

Job Responsibilities:

- Design review, installation, testing & commissioning of Building Services equipment including but not limited to HVAC, water supply, drainage, firefighting system, and elevators.
- O&M of diesel generators

Trainee Engineer

Sep-2017 to June-2018

Forman Christian College (A Chartered University), Pakistan.

Certifications

WELL Accredited Professional, ID: WELL-AP-0000137649, International Well Building Institute
Certified Healthcare Physical Environment Worker, Certification # 3833, American Society for Healthcare Engineering (ASHE)

Workshops & Seminars (Attended)

Far-UVC light devices in long-term care facilities to reduce infections (UVC in LTC)
Reducing Infectious Disease Trans. with UVGI, ASHRAE
Bipolar ionization air purification technology Webinar – ASHRAE Nebraska Chapter
Growth Mindsets – Graduate Studies University of Nebraska Lincoln

Professional Affiliations

Student Member of ASHRAE Nebraska Central
Formerly Affiliate Member of ASHRAE Pakistan Chapter
Student Member of the International Society of Indoor Air Quality & Climate (ISIAQ)
Student Affiliate Member – The Center of Health Design
Member of Pakistan Engineering Council – Reg No. MECH/35559

Awards, Honors & Participations

Graduate Student Travel Award - 2023
Awarded Gold Medal from Commissioner of Lahore, Pakistan
Awarded full fee scholarship in college on merit for a period of 2 years.
Merit Scholarship from Pakistan Engineering Congress for a period of 4 years
Presented final year undergraduate project in “All Pakistan DICE Energy and Water Innovation Event 2017”

Software

Engineering Equation Solver (EES), R Studio, AutoCAD, Solid Edge, C++, MATLAB, Hourly Analysis Program (HAP), Word, Excel, Power point

Conferences (attended)

2022 ASHRAE Winter Conference, Las Vegas
Great Plains Interoperability Conference 2022

February 2022
June 07, 2022

Teaching and Learning Symposium, UNL
White House Summit on Indoor Air Quality

Fall 2022
Fall 2022

Conference Presentations

Nosham, J. Lau & J. Bovaird (2024). “Leveraging K-Means clustering to reveal particulate patterns and assessing the impact of particle filtration in Midwestern elementary classrooms in the United States” – Accepted in Indoor Air 2024

Nosham, J. Lau & J. Bovaird (2023). “The Indoor Air Quality of Classrooms with and without Portable Air Purifiers: A pilot study.” 2023 ASHRAE Annual Conference, Tampa FL.