

ALI Khaleel Kareem



Contact

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Languages

Arabic: Native

English: Professional
proficiency

French: Beginner

Summary

An interdisciplinary engineer who aims to help academic institutions and companies to achieve its goals by meeting daily challenges in new ways. My social skills and my ability to communicate with all people from different backgrounds help me complete the tasks entrusted to me. Having a deep knowledge of the various disciplines also helps me to help my team to successfully complete projects within the specified time frame.

In addition, I am an innovative and driven leader, focused on achieving exceptional results in highly competitive environment that demands continuous improvement. Person of high integrity known for ability to envision and implement with expertise. Committed to his goals with steadfast enthusiasm.

Skill Highlights

- **Proactive problem solver who is good at thinking “out of the box”**
- **Proven team player who works well alone, with little or no supervision, or as part of a group**
- **Persuasive communicator with strong listening, writing, and verbal skills**
- **Leadership, Planning and Organization skills**
Play a leadership role in different administrative, academic and financial decision-making processes.
- **Project management**
Develop, implement and manage project plans/methodologies for complex mechanical engineering projects.
- **Negotiation skills**
Successfully negotiated with clients at different companies.
- **Teaching skills**
Ability to deliver information to the students or audience.
- **Flexibility and Capacity to focus on priorities**
Led several teams works which required highest flexibility to converge to any decision. In the end successfully accomplished a large number of tasks.
- **Research Skills**
Expert in computational Fluid Dynamics (CFD), Nanofluids, convection heat transfer in different shapes of cavities, rotating cylinder within cavities and artificial roughness walls.
- **Critical thinking and finding research gaps in scientific papers.**
Expert in highlighting area for which missing or insufficient information limits and capable to provide detailed plans to fill these gaps.
- **Computer Skills**
Engineering Software: Fluent and ICEM CFD programs
Analysis: Tecplot
Platform: Windows
Tool: Office Suite

Education

PhD in Thermal Engineering (Mechanical Engineering)

Jul 2014 – Jun 2018

University of Leicester, UK

Thesis title “*Mixed Convection Heat Transfer Enhancement in Lid-Driven Cavities Filled with Nanofluids*”

MSc Master in Thermal Engineering (Mechanical Engineering)

Jul 2010 – Feb 2012

University Tenaga National (UNITEN), Kuala Lumpur City, Malaysia

Dissertation title “*Mixed convection heat transfer in a lid-driven trapezoidal enclosure filled with nanofluids*”

BSc in Air conditioning and Refrigeration Technologies Engineering

Sep 2004–Jul 2008

Basra Technical College, Basra City, Iraq

Experience

Sumer University/College of Engineering/Mechanical Department

Feb 2023- Ongoing

Head of Mechanical Department

Lecturer

- Teaching Mathematics for 1st year undergraduate students.
- Teaching Material Properties for 1st year undergraduate students.
- Teaching Engineering Drawing for 1st year undergraduate students.
- Teaching English Language for 1st year undergraduate students.
- Teaching Thermodynamics for 2nd year undergraduate students.

Al-Amarah University College

Oct 2021 – Feb 2023

Lecturer

- Teaching Air Conditioning System for 4th year undergraduate students.
- Teaching Refrigeration System for 4th year undergraduate students.
- Supervising 4th year undergraduate students for 6 graduating projects.
- A member of many scientific, administrative and examination committees.
- Participation in many seminars, courses, and scientific and educational events of the college.

Islamic University, Najaf, Iraq

Oct 2019– Sep 2021

Lecturer

- Teaching steam power plant for last-year undergraduate students.
- Teaching mechanical engineering and industrial drawing for the first-year students.
- Teaching engineering material for the first-year students.
- Teaching computer applications III for the third-year students.
- Teaching refrigeration and air conditioning device maintenance for the third-year students.
- Supervising last-year undergraduate projects.
- Mostly, working on research of mixed convection heat transfer, nanofluids, CFD, artificial roughness cavities and rotating cylinder within cavities.
- Cooperating with other authors overseas to improve my research area and publish more journal papers.

Cape ALTRAD company, Karbala Refinery, Iraq

June 2019– Oct 2019

Work Progress Engineer

- Refractory project was the main work of our company.
- I was involved in many areas such as manpower, planning, materials, permits.

Mechanical engineering department, University of Leicester, United Kingdom

Sep 2014 – Jun 2018

Part Time Tutor

- Performed Fluent and ICEM tutorials (CFD).
- Provided help for undergraduate and master students with their studies and dissertations.

Samsung Engineering company, West Qurna 2nd Phase, Iraq

Mar 2013–Sep 2013

Mechanical Supervisor

- Managed the erection and weld of the huge petrol tanks.
- Guided welders and manpower in the working site.

Atta Althamer company (PETRONAS), Al Gharraf (AGOS), Iraq

Mar 2012–Feb 2013

Document Controller

- Controlled contract papers between ALTHAMER Oil Contracting Company and PETRONAS Company.
- Handover completed work between sub-contractor and main contractor companies.

Awards

- High number of publications during my PhD has resulted in awarded a worthy medal from the minister of the higher education of Iraq in London in 2017 as one of the best PhD students (five out of 4)

over two thousand students that study aboard in the UK) whom managed to publish this number in high quality international journals

Research and Publications

1. A.K. Kareem, H. Mohammed, A.K. Hussein, S. Gao, Numerical investigation of mixed convection heat transfer of nanofluids in a lid-driven trapezoidal cavity, *International Communications in Heat and Mass Transfer*, 77 (2016) 195-205.
2. A.K. Kareem, S. Gao, A.Q. Ahmed, Unsteady simulations of mixed convection heat transfer in a 3D closed lid-driven cavity, *International Journal of Heat and Mass Transfer*, 100 (2016) 121-130.
3. A.K. Kareem, S. Gao, Computational study of unsteady mixed convection heat transfer of nanofluids in a 3D closed lid-driven cavity, *International Communications in Heat and Mass Transfer*, 82 (2017) 125-138.
4. A.K. Kareem, S. Gao, Mixed convection heat transfer of turbulent flow in a three-dimensional lid-driven cavity with a rotating cylinder, *International Journal of Heat and Mass Transfer*, 112 (2017) 185-200.
5. A comparison study of mixed convection heat transfer of turbulent nanofluid flow in a three-dimensional lid-driven enclosure with a clockwise versus an anticlockwise rotating cylinder, *International Communications in Heat and Mass Transfer*, 90 (2018) 44-55.
6. A.K. Kareem, S. Gao, Mixed convection heat transfer enhancement in a cubic lid-driven cavity containing a rotating cylinder through the introduction of artificial roughness on the heated wall, *Physics of Fluids*, 30(2) (2018) 025103.
7. A.Q. Ahmed, S. Gao, A.K. Kareem, A numerical study on the effects of exhaust locations on energy consumption and thermal environment in an office room served by displacement ventilation, *Energy Conversion and Management*, 117 (2016) 74-85.
8. A.Q. Ahmed, S. Gao, A.K. Kareem, Energy saving and indoor thermal comfort evaluation using a novel local exhaust ventilation system for office rooms, *Applied Thermal Engineering*, 110 (2017) 821-834
9. A. Khaleel, S. Gao, CFD Investigation of Turbulent Mixed Convection Heat Transfer in a Closed Lid-Driven Cavity, World Academy of Science, *Engineering and Technology, International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, 9(12) (2015) 1527-1532.
10. A.K. Kareem, S. Gao, Mixed turbulent convection heat transfer in a 3D lid-driven cavity containing a rotating cylinder, *ISER - 257th International Conference on Heat Transfer and Fluid Flow (ICHTFF)*.
11. A.K. Kareem, S. Gao, Heat transfer enhancement of mixed convection in cubic lid-driven cavity containing a rotating cylinder by applying an artificial roughness on the heated wall, *International Journal of Mechanical and Mechatronics Engineering*, 12 (2018) No:5.
12. A.Q. Ahmed, S. Gao, A.K. Kareem, Evaluation of thermal comfort, indoor air quality and energy saving of a Local Exhaust Ventilation system in an Office room (LEVO) *Applied Thermal Engineering*, 110 (2017) 821-834.

Google Scholar

Ali Khaleel Kareem (PhD in Thermal Engineering, University of Leicester)

https://scholar.google.co.uk/citations?hl=en&view_op=list_works&gmla=AJsN-F63m0On94_YnHIRFAURFM1CK-obNmBnxfRj8qNMgWwTHIkNCsHUdzUgfitS6gXW19P-Gf_RXV6_1hWJ8OhIRM90tRdahDUFH_JzFaRGCaj7plvR9o&user=g4-3Kq4AAAAJ

Scopus

Kareem, Ali Khaleel

University of Leicester, Department of Engineering, Leicester, United Kingdom

Author ID: 57169906400

<https://www.scopus.com/authid/detail.uri?authorId=57169906400>

Journals Reviewer

Reviewer in Physics of Fluids Journal which is published in an American Institute of Physics.

Personal Information

Full name: Ali Khaleel Kareem

Date of Birth: 06th July 1985

Gender: Male

Marital Status: Married

References

Available upon request.