

## Curriculum vitae (Zaid Maan Hasan Al-Dulaimi)



### Contact Details and Occupation

Name: Zaid Maan Hasan Al-Dulaimi  
Occupation: Dean Assistant for Management and Financial Affairs at the Najaf Technical Institute, Al-Furat Al-Awsat Technical University.  
Address: Mechanical Power Technical Engineering department at the Engineering Technical College / Najaf, Al-Furat Al-Awsat Technical University  
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### Qualifications

<b>Level</b>	Bachelor of Science (B.Sc.)
<b>Subject</b>	Mechanical Engineering
<b>Grade</b>	75.089%
<b>Year</b>	1999
<b>Organization</b>	University of Kufa / Iraq

<b>Level</b>	Master of Science (M.Sc.)
<b>Subject</b>	Mechanical Engineering
<b>Thesis Title</b>	Thermal Analysis of Grate Clinker Cooler
<b>Grade</b>	75.64%
<b>Year</b>	2002
<b>Organization</b>	University of Kufa / Iraq

<b>Level</b>	Doctor of Philosophy (Ph.D)
<b>Subject</b>	Mechanical Engineering
<b>Thesis Title</b>	Non-Aqueous Shale Gas Recovery System
<b>Grade</b>	Pass
<b>Year</b>	2017
<b>Organization</b>	Cardiff University / UK

### Career

No.	Career	Work place	From - to
1.	Assist. Lecturer	Engineering Technical College / Najaf Foundation of Technical Education	2003 -2011
2.	Lecturer	Engineering Technical College / Najaf Al-Furat Al-Awsat Technical University	2011 - 2018
3.	Assist. Professor	Engineering Technical College / Najaf Al-Furat Al-Awsat Technical University	2018 – Present

**Position held:**

No.	Career	Work place	From - to
1.	Rapporteur of Mechanical Power Department	Engineering Technical College / Najaf Foundation of Technical Education	2003 -2005
2.	Manager of the Scientific and Advisory Services Bureau	Engineering Technical College / Najaf Al-Furat Al-Awsat Technical University	2007 - 2009
3.	Assistant Dean for Student Affairs	Engineering Technical College / Najaf Al-Furat Al-Awsat Technical University	2009 – 2012
4.	Assistant Dean for Scientific and Postgraduate Affairs	Engineering Technical College / Najaf Al-Furat Al-Awsat Technical University	2012-2012
5.	Postgraduate Researcher	Cardiff School of Engineering Cardiff University	2013-2017
6.	Head of Student Activities Department	Al-Furat Al-Awsat Technical University	2017-2018
7.	Assistant Dean for Financial and Administrative Affairs	Technical Institute / Najaf Al-Furat Al-Awsat Technical University	2018-2019
8.	Manager of the Scientific and Advisory Services Bureau	Technical Institute / Najaf Al-Furat Al-Awsat Technical University	2019-Present
9.	Dean	Technical Institute / Diwaniyah Al-Furat Al-Awsat Technical University	2019-Present

**Specialization**

<b>General</b>	Mechanical Engineering
<b>Specific</b>	Thermal Power

**Skills and expertise**

- Mechanical Engineering.
- Fluid Mechanics and Gas Dynamics.
- Alternative and Micro Propulsion Systems.
- Deflagration to Detonation Transition.
- Open Field Operation and Manipulation (OpenFOAM).
- ANSYS Parameter Design Language (APDL).
- Shale Gas Recovery.
- Renewable Energy Technologies.
- Combustion Analysis.

- Risk Management and Risk Assessment.
- Hazard and Operability Study (HAZOP).

#### **Thesis which was supervised by**

No	Thesis Title	Department	Year
1	Influence of adding LPG to spark ignition internal combustion engine performance	Engineering Technical College / Najaf Al-Furat Al-Awsat Technical University	2017
2	Thermal Analysis and Temperature Distribution Study of Oil Cooled Large Power Transformers	Engineering Technical College / Najaf Al-Furat Al-Awsat Technical University	2019
3	Experimental Study of Pressure Distribution and Boundary Layer Characteristics Over a Roughed Surface Aerofoil	Engineering Technical College / Najaf Al-Furat Al-Awsat Technical University	2019

#### **Publications**

No.	Research Title	Place of Publication	Yea
1	Experimental Investigation of The Enhancement Parameters on The Performance of Single-Slope Solar Still.	International Journal of Latest Trends in Engineering and Technology. Vol.(10)Issue(3), pp.139-145	2018
2	Numerical Investigation of Free Convection Heat Transfer with non-Newtonian Fluid in Different Enclosures Geometries	International Journal of Scientific and Engineering Research. Volume 9, Issue 5	2018
3	Investigation The Effect Of Calcinations Degree And Rotary Kiln Gases Bypass Opining In The Preheating System For Dry Cement Industries	International Journal of Latest Trends in Engineering and Technology. Vol.(10) Issue(3), pp.119-127	2018
4	Experimental Study to Enhance Swirl Burner Against Boundary Layer Flashback	9th International Conference on Applied Energy, ICAE2017, 21-24 August 2017, Cardiff, UK. Energy Procedia 142 (2017).	2017
5	Pulse Detonation Generated by Natural Gas Recirculation in Shale Gas Recovery	European Combustion Meeting, 2017, Dubrovnik, Croatia.	2017
6	Study The Effect of Loading Ratio on Secondary Loss and Heat Exchange of Two-Phase Flow (Gas-sSolid) in Variable Cross-Sectional Pipe	Qadisiyah Journal, Vol. (04) Issue (4), 2011.	2011

7	Analysing Shock Losses Throughout The Impeller of The Centerfugal Fan	Qadisiyah Journal, Vol. (04) Issue (2), 2009.	2009
8	Evaluation the effect of the top wall fluidised boundary layer on industrial cyclone separation efficiency	Published in 1 <sup>st</sup> Committee of Engineering Technical College / Najaf, 2008 pp.145-152.	2008

### Conferences and Workshops

No.	Conference Title	Year	Place	Type of Participation
1	Mechanical Sections Training Equipment Workshop Course	2005	Pologna, Italy	Participant
2	First Scientific Conference	2008	Engineering Technical College / Najaf	Paper
3	Teaching Competencies Workshop Course	2008	Foundation of Technical Education / Baghdad	Participant
4	F.T.E. Scientific Conference	2010	Engineering Technical College / Najaf	Organisation Commette
5	6 <sup>th</sup> ENGIN Postgraduate Conference	2014	Gregynog Hall, Cardiff, UK	Paper
6	Princeton Combustion Energy Frontier Research Center Summer School	2015	New Jersey, USA	Participant
7	8 <sup>th</sup> ENGIN Postgraduate Researchers Conference	2016	Gregynog Hall, Cardiff, UK	Poster
8	8 <sup>th</sup> European Combustion Meeting	2017	Dubrovnik, Croatia	Poster
9	9th International Conference on Applied Energy, ICAE2017	2017	Cardiff, UK	Paper

**Awards and Certificates of Appreciation:**

<b>No.</b>	<b>Name of Awards and Certificates</b>	<b>Donor</b>	<b>Number</b>	<b>Year</b>
1	Certificate of Appreciation	Chancellor of Foundation of Technical Education	2	2003
2	Certificate of Appreciation	Chancellor of Foundation of Technical Education	1	2009
3	Certificate of Appreciation	Dean of The Engineering Technical College / Najaf	1	2003
4	Certificate of Appreciation	Dean of The Engineering Technical College / Najaf	2	2007
5	Certificate of Appreciation	Dean of The Engineering Technical College / Najaf	2	2009
6	Certificate of Appreciation	Dean of The Engineering Technical College / Najaf	1	2005
7	Certificate of Appreciation	Dean of The Engineering Technical College / Najaf	1	2012
8	Certificate of Appreciation	Vice Chancellor for Scientific Affairs / Al-Furat Al-Awsat Technical University	1	2017
9	Certificate of Appreciation	Vice Chancellor for Administrative Affairs / Al-Furat Al-Awsat Technical University	1	2018
10	Certificate of Appreciation	Vice Chancellor for Scientific Affairs / Al-Furat Al-Awsat Technical University	1	2018
11	Certificate of Appreciation	Chancellor of Al-Furat Al-Awsat Technical University	3	2019
12	Certificate of Appreciation	Governor of Al-Najaf Al-Ashraf Governorate	1	2019
13	Certificate of Appreciation	Dean of The Najaf Technical Institute	2	2019

### Training Courses:

No.	Course Title	Venue	Year
1	Modern Welding Technology Workshop	Cairo, Egypt	2007
2	PGR Induction	Cardiff University / UK	2013
3	Risk Assessments	Cardiff University / UK	2013
4	An Introduction UNIX/LINUX	Cardiff University / UK	2013
5	EndNote: An Introduction to Managing your References	Cardiff University / UK	2014
6	Microsoft Excel: Using Graphs and Charts to Present your Data	Cardiff University / UK	2014
7	Microsoft PowerPoint: An Introduction to Creating a Presentation	Cardiff University / UK	2014
8	Microsoft Word: Working with Long Documents	Cardiff University / UK	2014
9	Library & Information Skills	Cardiff University / UK	2014
10	Managing in Organisations	Cardiff University / UK	2014
11	Technical Writing for Non-Native Speakers	Cardiff University / UK	2014
12	Presentation Skills: An introduction	Cardiff University / UK	2015
13	Writing a Literature Review (Sciences)	Cardiff University / UK	2015
14	English for Research Writing (for non-native speakers of English)	Cardiff University / UK	2016
15	Abstracts: How to Write Them in the Sciences	Cardiff University / UK	2016
16	Working Safely	Cardiff University / UK	2017
17	Fusion Energy: The New Frontier	Cardiff University / UK	2017
18	Microsoft PowerPoint: Enhancing Your Presentation,	Cardiff University / UK	2017

### **Membership:**

- Member of Iraqi Engineers Union, 1999 – present.
- Member of Iraqi Teachers Union, 2011 – present.
- Member of Iraqi Academics Syndicate, 2018 – present.

### **Teaching Experience (Undergraduate)**

No	Department	Subject	Year
1	Mechanical Power Technical Engineering Department / Engineering Technical College / Najaf	Gas Dynamics	2003-2012
2	Aeronautical Technical Engineering Department / Engineering Technical College / Najaf	Gas Dynamics	2017-Present
3	Mechanical Power Technical Engineering Department / Engineering Technical College / Najaf	Thermo Dynamics	2002-2003
4	Mechanical Power Technical Engineering Department / Engineering Technical College / Najaf	Engineering Drawing	2003-2004

### **Software and Programming Language Expertises:**

- Open Field Operation and Manipulation, OpenFOAM.
- ANSYS Parameter Design Language , APDL.
- Hazard and Operability Study, HAZOP.
- SolidWorks Software.
- Microsot office.
- EndNote.
- Mendeley Refrence Management Software.
- Chemkin-Pro.
- Gaseq Software.
- Microsoft Visio.
- RockEval Pyrolysis.
- High Resolution Transmission Electron Microscope (HRTEM).

### **Languages:**

- Arabic
- English