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**Academic Curriculum Vitae**

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**Personal Information:**

Full Name: Dr. Mohammed Jawdat Barzanjy

Academic Title: Asst. Prof.

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**Mobile: 07507313308**

**Education:**

Ph.D. in Mechanical Engineering ( Thermal Powers – Heat and Mass Transfer ), University of Technology - College of Engineering , 2007 , Baghdad.

M.Sc. in Mechanical Engineering ( Applied Design – Strength of Materials ), University of Technology - College of Engineering , 1997, Baghdad.

B.Sc in Artillery and Rocket Engineering, Military Engineering College, 1992, Baghdad.

B.Sc in Mechanical Engineering, University of Technology - College of Engineering, 1992, Baghdad.

B.Sc. in Military Science, Military Engineering College, 1992, Baghdad.

**Employment:**

Gained good experience in management and administration with various organizations and shown leadership on many activities. As part of my duty, I have demonstrated ability in administering many tasks with various universities starting from ( 01 / 10 / 1992 ).

Head of Research and Development department in Military Engineering College, from ( 1997 to 2003 ) with military rank.

Working as consultant with four ( 4 ) consultancy companies associated with military industrial facilities, from ( 1997 – 2003 ).

Lecturer at Mechanics – Mechatronics Engineering Department in College of Engineering, University of Salahaddin, Erbil – IRAQ, from 2004 till now

Head of Teaching Quality Assurance unit in Mechanical department - College of Engineering, University of Salahaddin, Erbil – IRAQ, from ( 2015 – 2017)

Head of Teaching Quality Assurance unit in College of Engineering, University of Salahaddin, Erbil – IRAQ, from ( 2017 – 2019).

Lecturer at Chemical – Petrochemical Engineering Department in College of Engineering, University of Salahaddin, Erbil – IRAQ, from 2017 till now.

Head of Chemical – Petrochemical Engineering Department in College of Engineering, University of Salahaddin, Erbil – IRAQ, from 2019 till now.

**Qualifications**

Administration and Management courses for 6 Months

Aerodynamics Engineering ( B.Sc. , M.Sc. )

Design of Machines and Equipments ( B.Sc. )

Ballistics (Internal, Terminal and External) of Missiles ( Military Engineering College –

Baghdad, Erbil Police college )

Explosives ( Solid and Liquid ), ( Military Engineering College – Baghdad, Erbil Police

college )

Fluidization and Drying of Solids ( M.Sc. )

Heat Transfer and Heat Exchanges ( B.Sc. , M.Sc. )

Industrial Engineering and Management ( B.Sc. )

Mass Transfer and Solid Drying ( B.Sc. , M.Sc. )

Advanced Mathematics and Engineering Analyses ( B.Sc. , M.Sc. )

Optical and Radar Technology

Plant Layout

Propellant and Ammunition Technology ( Military Engineering College – Baghdad, Erbil

Police college )

Rocket Design ( Diploma )

Small Arms Design

Stress Analyses and Strength of Materials ( B.Sc. , M.Sc. )

Solid Propellant Rocket Motor Design (SPRM)

Theory of Machines ( B.Sc. )

Theory of Measurements and Equipments ( B.Sc. , M.Sc. )

Two Phase Flow ( M.Sc. )

Air Conditioning Engineering ( B.Sc. , M.Sc. )

Thermodynamics ( Mechanical + Chemical )Engineering ( B.Sc. , M.Sc. )

Vector Mechanics ( Statics and Dynamics ), ( B.Sc. )

Advanced Vector Mechanics, Dynamics ( M.Sc. )

Advanced Mathematics and statistics ( M.Sc. )

**Teaching experience:**

Aerodynamics Engineering ( B.Sc. , M.Sc. )

Design of Machines and Equipments ( B.Sc. )

Ballistics (Internal, Terminal and External) of Missiles ( Military Engineering College –

Baghdad, Erbil Police college )

Explosives ( Solid and Liquid ), ( Military Engineering College – Baghdad, Erbil Police

college )

Fluidization and Drying of Solids ( M.Sc. )

Heat Transfer and Heat Exchanges ( B.Sc. , M.Sc. )

Industrial Engineering and Management ( B.Sc. )

Mass Transfer and Solid Drying ( B.Sc. , M.Sc. )

Advanced Mathematics and Engineering Analyses ( B.Sc. , M.Sc. )

**Research and publications**

Life Cycle and Performances Progressing Of Artillery Barrels

Kinetic Methods Applied to the Assessment The Life Time of Artillery Powders

Effect of Nozzle Diameter on Steam Ejector performance

Exergy evaluation of A Water based heat pump working with various refrigerants

Prediction the solubility data of solid solutes in Supercritical CO2 by combined

Mendez-Santiago-Tejaand Peng Robinson equations of state.

Effect of adding Acetic Acid on performance and environmental properties of

Engine Diesel Fuel

Study of Saving Thermal Energy Using Local Mixed Phase Change Materials.

REDUCING OIL POLLUTION IN KAWERGOSK OIL REFINERY EFFLUENT

Geochemistry study of black shale in Barzewa and Warte Sections, Sargelu Formation, Kurdistan Region, Iraq

UPGRADING THE ENVIRONMENTAL PROPERTIES OF KIRKUK KEROSENE USING GLACIAL ACETIC ACID

**Conferences and courses attended**

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| Name of Conference  | ICEM 2010  |
| Date of Conference  | 29/11/2010 – 01/12/2010  |
| Place  | Kuala Lumpur - Malaysia  |
| Research Tile  | Increasing the Performance and Life Cycle of Artillery barrels using innovative Autofrettage technique  |
| Name of Conference  | IJAS 2011  |
| Date of Conference  | 26/06/2011 – 29/06/2011  |
| Place  | Prague - Czech Republic  |
| Research Tile  | Kinetic Methods applied to the Assessment the Life Time of Artillery Powders  |

**Professional memberships**

Iraqi Engineers Union – Baghdad : Consultant of Mechanical Engineer, 1992.

Kurdistan Engineers Union – Erbil : Consultant of Mechanical Engineer, 2004.

ASME Organization – ICEM : Scientific research member, 2010.

**Professional Social Network Accounts:**

Google Scholar https://scholar.google.com/citations?view\_op=search\_authors&mauthors=mohammed+ jawdat+barzanjy&hl=en&oi=ao

Research Gate https://www.researchgate.net/profile/Mohammed\_Barzanjy

Linkedin

https://www.linkedin.com/in/dr-mohammed-jawdat-barzanjy-89a6b7125/

Moodle

http://moodle.su.edu.krd/engineering/my/#

ORCID

https://orcid.org/0000-0002-0696-7031

SUE

https://colleges.su.edu.krd/engineering/teachers/asst-prof-dr-mohammed-jawdat-barzanjy/