# NAZHAD AHMAD HUSSEIN

Engineering College, University of Salahaddin, Hawler, Kurdistan

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-----------------------------------**PERSONAL INFORMATION**----------------------------

Place of Birth: Hawler, Kurdistan

Date of Birth: 1975

Present Resident in Hawler, Kurdistan

Sex: male

Status: Married with 2 children

------------------------------------------------**EDUCATION**------------------------------------------

BSc.: Mechanical Engineering

MSc.: Mechanical Engineering

PhD.: Mechanical Engineering

Asst. Professor in Applied Mechanics

----------------------------------------------**WORK HISTORY**------------------------------------

University of Salahddin, Engineering College, Mechanical Department (1999)

Vice Head of Mechanical Dept. (2002-2005)

Head of Mechanical Dept. (2011-2014)

Deputy of Dean of engineering college(2016-2017 )

Head of Mechanical Dept. (2017-)

Head of central examination committee of engineering college (2015-2016)

Editorial board of Zanko journal of pure and applied science- university of Salahaddin

Representative of Ministry of higher education for establishing the law of universities with parliament committee for education, council of ministries, and ministry of finance regarding the bureau consultancy.

Member of higher education Ministry committee on prescriptions to universities bureau consultancy.

Member of higher education Ministry committee for supervising the rebuilding laboratories in mechanical department.

Ministry committee member for studying the program of Talat abo Ghazal College.

University urgent committee member to keep the college away from any accident during process of Iraqi freedom (2003).

University committee member for prepare the German – Iraq symposium in salahaddin university.

Director of the first German-Iraq symposium (partnership in progress) in salahaddin university-mechanical department

University committee member of the second German-Iraq symposium (partnership in progress) in salahaddin university-mechanical department

Scientific committee member for first international conference in salahaddin university

PhD candidates and evaluating committee university members.

All college committees include scientific, higher education study, planning, examination…etc.

College committee member for establishing an oil department within the Salahaddin University.

--------------------------------------------------**ACTIVTIES**------------------------------------------

- Establish the first advanced vibration laboratory in Iraq for mechanical department for higher education research study. A Germany PhD student has doing his PhD research in this lab to date.

- Construct and open the first advance control laboratory for Mechanical Department.

- Construct and open the first advance automotive laboratory for Mechanical Department.

- Construct and open the advance spectro laboratory for Mechanical Department.

- Construct and open the advance thermodynamic laboratory for Mechanical Department.

- Construct and open the first advance internal combustion laboratory for Mechanical Department

- Yearly exhibition for student activities in mechanical department

- Working on alteration of study programs according to the job qualification’s market.

- Working on self-sufficiency through bureau consultant activities and development of staff capability

- Bringing the mechanical department as warmest dept. including the staff activities through bureau consultancy with private and government sectors.

- Working on accomplish of student projects and researches according to community needs

- Using bureau consultancy incomes for student projects in order to make and assemble lab equipments.

- **Activities with DAAD organization in Germany**:

 2014

* Joint Publication, in Freiberg
* Training in the Vibration Test Systems in Freiberg
* Capacity Building programmes for Iraqi academic staff in Iraq
* Training in the CFD in Freiberg
* Qualification programmes for Iraqi academic staff in Freiberg (Prototyping" 3D-Printing, 3DScaining, CNC", CFD, Solarsystem)
* Summer-Internship of 10 iraqi students in TU Freiberg (NX, 3D-Printing, Casting, CNC-mashine, Contorol, Research work in Lab.)
* Internship in the laboratory (Moulding sand Testing, ) in Erbil/Iraq
* Capacity Building in the Solarsystem (building real system and Simulation) in Erbil/Iraq
* Internship in the CNC-laboratory, in Erbil
* Internship in the Vibrationsystem in Freiberg
* Modelling and Simulation of Technical Processes, in Iraq
* Design Heat Load and Cool Load -Internship in the laboratory in Germany
* Seminar "Study in Germany" in Iraq with the DAAD Center Erbil (03.2014)
* Advice and support during the purchase of laboratory equipments
* Internship in the laboratory-Contorol (Software Dasylab + Hardware + Sensor) in Iraq (02.2014)
* Meeting Workshop - implementation of Master’s program (Kontakt Studium) in Erbil-Iraq (01.2014)

2013

* Modelling and Simulation of Technical Processes, in Freiberg (10. and 11.2013)
* Research study of Iraqi PhD and MSc.-students (09.2013-12.2013)
* Capacity Building programmes for Iraqi academic staff in Iraq (09.2013)
* Internship in the laboratory (Software Dasylab + Hardware + Sensor) in Freiberg (10. and 11.2013)
* Training in the CFD, in Freiberg (10.2013)
* CNC-Internship in the laboratory in Freiberg (11.2013)
* Qualification programmes (Prototyping) for Iraqi academic staff in Freiberg (09.2013)
* Summer-Internship of 10 iraqi students in TU Freiberg (08.2013)
* Transport of Laboratory equipments to Iraq - Erbil (07/2013)
* Advice and support during the purchase of laboratory equipments (06.2013)
* Meeting Workshop - implementation of dual Master’s program in Erbil-Iraq (02-05.06.2013)
* [Internship in the laboratory (Moulding sand Testing) in Erbil/Iraq (19-23.05.2013)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub51)
* [Scientific Excursion of Germany students in Iraq 23.-27.03.2013](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub50)
* [Internship in the CNC-laboratory, in Erbil (10.-12.01.2013)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub49)

[2012](http://tu-freiberg.de/fakult4/megi/activities.en.html#2011)

* Training in the CFD, in Freiberg (23.11.-13.12.2012)
* [Qualification programmes for Iraqi academic staff in Freiberg (10.10-11.11.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub48)
* [Seminar "Study in Germany" (18.10.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub47)
* [Modelling and Simulation of Technical Processes, in Iraq (17.-18.10.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub46)
* [Capacity Building - Application of methods of statistical test planning , in Iraq (14.-15.10.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub45)
* [Internship in the laboratory (Software Dasylab + Hardware + Sensor) in Iraq (30.09.-03.10.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub44)
* [Summer-Internship of 6 iraqi students in TU Freiberg (08.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub43)
* [Advice and support during the purchase of lab. equipments (07.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub42)
* [Meeting Workshop - implementation of dual Master’s program in Erbil-Iraq (06.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub41)
* [CNC-Internship in the laboratory in Iraq CNC 05.2012](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub40)
* [Opening Frist CNC-Lab. (Glückauf-Lab. for CNC Machining) in Iraq/UoS Erbil](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub39)
* [Beginning five iraqi students (Pilotphase-double master program) in TU Freiberg (04.2012)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub38)

##  [2011](http://tu-freiberg.de/fakult4/megi/activities.en.html#2011)

* Meeting Workshop - implementation of dual Master’s program in Erbil-Iraq (12.-14.12.2011)
* Joint publications in Freiberg (12.2011)
* Internship in the CNC-laboratory in Freiberg (12.-16.12.2011)
* Modelling and Simulation of Technical Processes in Iraq (09.-11.10.2011)
* Internship in the laboratory (Software Dasylab + Hardware + Sensor) in Iraq (14-16.10.2010)
* Summer-Internship of 5 iraqi students in TU Freiberg (08/2011)
* Qualification programmes for Iraqi academic staff in Freiberg (08/2011)
* Research study - MSc. and PhD in TU Freiberg (08.-11./2011)
* Transport of Laboratory equipments to Iraq (05-06/2011)
* Meeting Workshop - implementation of dual Master’s program in Erbil-Iraq (28.-30.03.2011)
* Internship in the laboratory in Iraq (21.-27.03.2011) (05.-12.02.2011)

[2010](http://tu-freiberg.de/fakult4/megi/activities.en.html#2010)

* Joint publications in Freiberg
* [1. Iraqi German symposium - Resource management in Erbil 29.11.-01.12.2010](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub24)
* [Academic School "Modelling and Simulation of Technical Processes" in Erbil (11.2010)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub23)
* [Internship in the laboratory in Erbil (1 Week) (10.2010)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub22)
* [Meeting Workshop - implementation of a joint Master’s degree in Erbil (10.2010)](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub21)
* [Excursion of Iraqi students in Germany](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub20)
* [Summer-Internship of iraqi students in TU Freiberg](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub19)
* [Qualification programmes for Iraqi academic staff in Freiberg](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub18)
* [Research study - MSc. and PhD in TU Freiberg](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub16)
* [Transport of Laboratory equipments to Iraq](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub15)
* [Internship in the laboratory in Freiberg](http://tu-freiberg.de/fakult4/megi/activities.en.html#sub14)

-----------------------------------------------------**-PUBLICATIONS**-------------------------------------------

Publications of 12 scientific papers in (UK, Spain, German, Turkey, Czech, Malaysia, and Iraq).

## -Geometry factor determination of round specimens using fracture mechanic approaches in Al 2024-T3 (UK)

## - Effect of Heat Input and Environmental Temperature on the Welding Residual Stresses using ANSYS APDL Program Comparison with Experimental Results (Spain)

## - Detection of Crack in Al-6063 Cantilever Beam Using COMSOL Program and Experimental Work (German)

-The effect of gage length value in tensile test specimens on the mechanical properties of metals (Turkey)

## - Crack Identification in Cantilever Beams Using COMSOL Program Comparison with Experimental Result (Czech)

## - Determination of Welding Residual Stresses in Fillet Welded Joints Using ANSYS APDL Program and Comparison with Experimental Results (Malaysia)

- The influence of surface roughness for medium carbon steel at fatigue test on the S-N diagram (Iraq)

- Three dimensional finite element simulation of arc welding process using ANSYS APDL program (Iraq)

- Effect of crack location and size on the natural frequencies of cracked beam using COMSOL program comparison with experimental results (Iraq)

- Dynamic Response of Supported Pipes Conveying Fluid (Iraq)

-Effect of Fiber Angles on Dynamic Response of Cantilever Composite Beams (Iraq)

**-** Theoretical, Numerical, and Experimental Analysis of Composite Double-Cracked Cantilever Beams with Various Fibers Volume Fraction and Angles (Iraq)