

CURRICULUM VITAE

Jan. 26^h, 2020

Sherzad Tahseen Tahir, B.S. ME, M.Eng ME, and PhD. ME

Personal Data

Full Name: Sherzad Tahseen Tahir
Gender: Male
Marital Status: Married
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Education

PhD ME, Jan 2014 - May 2019

Graduate College – Arizona State University, USA
Doctor of Philosophy, Mechanical Engineering
GPA of 3.33 out of 4.0

M.Eng ME, June 2009- December 2010

Graduate College – Boise State University, USA
Master of Engineering, Mechanical Engineering
GPA of 3.7 out of 4.0

B.S. ME, October 1987 – May 1993

College of Engineering, University of Mosul, Nineveh Governorate, Iraq
Bachelor of Science, Mechanical Engineering

Professional Experience

June 2019 – **Current**

Teacher– Department of Mechanical Engineering, University of Duhok, Duhok, Iraq

- Teaching Engineering Mechanics I & II (Dynamics) ME211, second year
- Teaching Theory of Machine I & II ME311, third year.
- Assigned students home works and graded them
- Tested students on subjects taught
- Reported grades to the department

Jan 2016 – June 2017

Quality Assurance Assistant – Arizona Nutritional Supplement-Chandler, Arizona, USA

- Worked alongside PhD studies
- Inspected and verified completed documents (Change Orders, Deviations, Batch Records, and Certificates of Analysis) for products and operations before filing them in the ANS company database to make sure that they include no mistakes if audited by customers or FDA.
- Prepare the Quarterly Management review report for the Quality Assurance Department

Jan 2015 – May. 2019

PhD Student – School for Engineering of Matter, Transport and Energy, Arizona State University, Arizona, USA

- Completed all required classes and credits that satisfy the PhD program at ASU.
- Passed Qualifying and Comprehensive exams.
- Researched in depth the subject of effect of rapid urban expansion in desert region on naturally windblown dust generation,
- Learned to create models using Weather Research and Forecasting (WRF 3.0) Modelling program
- Created models and applied them on a city that went through rapid expansion in a desert region. These models included coupling the 3-D mesoscale flow, land-cover changes, and turbulence flow.

May 2012 – May 2015

Consulting Engineer – Kurdistan International Bank-Duhok Project, Duhok, Iraq

- Monitoring and approving all Mechanical work for the newly build project. Such as:
 - HVAC System,
 - Fire Fighting System,
 - Plumbing System, and
 - Vault

Doors. April 2011 – Dec. 2014

Teaching Assistant – Department of Civil Engineering, University of Duhok, Duhok, Iraq

- Teaching Engineering Mechanics CE 101, first year
- Teaching Academic Debate CE 11AD, first year
- Teaching Fluid Mechanics CE 204, Second year.
- Checked the students assignments
- Graded the students home works
- Reported grades to the Professor

August 2009 – December 2010

Teaching Assistant and Grader (Part Time) – Boise State University, Boise-Idaho, United State of America

- Checked the students assignments for:
 1. ME 352 Applied Mechanics of Materials
 2. ME 462 Machine Design
- Graded the students home works
- Reported grades to the Professor

October 2006 – December 2008

RMA/Quality Engineer - Assembly department, Micron Technology Inc., Boise-Idaho, United State of America

- Received returned DRAM-Memory, PSRAM-Memory, and CMOS-Imager parts from external customer
- Performed failure analysis on the returned parts.
- Established reports on the analysis and results.
- Provided feedback results to production line.
- Provided corrective action to end customers

June 2003 – September 2006

Quick Turn/Failure Analysis Technician - Assembly department, Micron Technology Inc., Boise-Idaho, United State of America

- Built test part for quality assurance team
 1. Used Wafer saw machines to dice the wafers
 2. Manually picked the required test part and placed them into special test packages
 3. Used gold and aluminum wire bond machines to bond the chips into lead frames of the packages
- Used D9000 C-SAM machine, performed acoustic microscopy test on DRAM-Memory, PSRAM-Memory, and CMOS-Imager Chips
- Established reports on the analysis and results.
- Used KLA-Visual Inspection Machine, Performed inspection of CMOS imager wafers
- Mapped the defected parts on the wafers and sent them to wafer dicing process

February 2001 – May 2003

Encapsulation Operator - Assembly department, Micron Technology Inc., Boise-Idaho, United State of America

- Operated Dai-ichi, ASA, and COSMO encapsulation machines to encapsulate DRAM, PSRAM, and CMOS chips
- Performed sample inspection on encapsulated parts with high power microscopes.

Volunteer Experience

July 1998 – present

Translation – Local community, Dallas and Idaho, United State of America

- Have helped local community and performed English translation for Kurdish and Arabic speakers.

November 1996 – June 1998

Language Teacher – Baku, Azerbaijan

- Lectured local staff for Relief International some beginner English classes to understand simple words in districts of Barda, Yevlakh, Agjabedi, and Baku Azerbaijan.

Academic and Training courses

- Advanced Thermodynamics (Focused on advanced topics and applications of thermodynamics include power and refrigeration cycles, combustion, mixed gas properties, chemical equilibrium, and psychometric) through course ME 420G, August 2010.
- Finite Element Methods (Application and Theory) through course ME 560, 570, August 2009 and January 2010
- SolidWorks Simulation Tutorials (Practice of two books) Through ME 596, May 2010
- Renewable Energies (Focused on Wind, Solar, and Geothermal Energy. Included a project using solar energy to run Sterling Engine) through course ME 526, August 2009.
- Energy Efficiency: (Focused on best methods to use and control energy. Included project on designing efficient house using Heed Program) through course ME 597, January 2010
- Computational Fluid Dynamics: (Theory and numerical modeling in fluid dynamics. Using ANSYS workbench, simulated the return of the Space Shuttle Orbiter into the atmosphere) through course ME 530, January
- Vibration (Theory and methods for analysis of vibrating physical systems. Included project on reading natural frequency using SolidWorks simulation) through course ME 472G, January 2010
- Continuum Mechanics (Development and analysis of fundamental relationships and constitutive equations for deformation, strain, and stress of materials occupying a continuous domain, Included special lecture on Acoustic measurements) through course ME 510, January 2010
- Applied Mathematics and Mathematic Modeling (Application and Modeling) through course MATH 537, 564, January 2010 and May 2010
- KT-Problem Solving: Micron Technology class for Engineers, March 2007

CAD Programs

- ME 10: 2D Drawings
- Solid Works: 3D CAD and Simulation software
- ANSYS Workbench: 3D CAD and Simulation software

Languages

English - fluent
Arabic - fluent
Kurdish – native language
Turkish -Fair

Computer Skills

- Microsoft Office (Word, Excel, Visio Standard, and PowerPoint).
- HEED Software: Home Energy Efficient Design
- MATLAB & Simulink: Math software for engineering and science
- Maple 11: The essential tool for Mathematics and Modeling
- Working Model 2D: Motion simulation product and confirming analysis/results for any design
- Weather Research and Forecasting (WRF 3.0)

Hobbies

Interpret the mechanical part of the universe
Exploring and observing nature
Look for clean sources of energy
Sport (Swimming and Mountain Hiking).

References

- Huei-Ping Huang, Ph.D. &P.E. (ME)
Associate Professor in the areas of aerospace and mechanical engineering, School for Engineering of Matter, Transport and Energy, Arizona State University, Tempe-Arizona, United State of America.
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- Stephen Tennyson, Ph.D. &P.E. (ME)
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- Joseph Guarino, Ph.D. &P.E. (ME), Associate Chair
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