Curriculum Vitae of
Dr. Suha Karim Shihab (*Ph.D., JMI*)

Objective

To excel in academics and research through acquisition of knowledge and conduction of the state-of-art research in the field of Mechanical Engineering (Production engineering, Machining and Manufacturing Processes, Metal Forming, Engineering Plasticity, Computer Aided Design and Manufacturing, Engineering Design), that enables me to provide my services to the best of my capabilities to the organization I shall be associated with to make it a centre of excellence conducive for promoting teaching-learning process for the fraternity.

Personal Information

Designation:	**Lecturer**
Date & Place of Birth:	November, 23, 1975, IRAQ
Nationality:	Iraqi
Passport Details:	Holds passport valid until November 14, 2016. Other passport details would be provided as and when required.
Mobile:	00964 7902185739 or 00964 7726241395
Email:	suhakarim_10@yahoo.com
License:	Iraqi International Driving License.
Postal address:	College of Engineering, Diyala University, Baqubah City, Diyala Governorate, ZIP 32001, Iraq.

Areas of Research Interests

- Production Engineering
- Machining and Manufacturing Processes
- Optimization of Design and Manufacturing Process Parameters
- Metal Forming
- Finite Element Analysis /(ANSYS Program)
- Engineering Design

Educational Qualifications

- **Ph.D., Mechanical Engineering** (2015)
  Jamia Millia Islamia (A Central University), New Delhi, India. (English Curriculum)
  Thesis Title: Experimental Studies on Turning High Hardness Alloy Steel with High Performance Tools
- **M.Sc., Production Engineering & Metallurgy** (2005)
  University of Technology-Baghdad- Iraq. (English Curriculum)
  Thesis Title: A finite element analysis of orthogonal machining using different tool edge geometries.
- **B.Sc., Production Engineering & Metallurgy** (1997)
- University of Technology-Baghdad- Iraq. (English Curriculum)

Software Skills/Proficiency

- Platforms: Windows XP, MS DOS
- Applications: MS-Office, AutoCAD, IronCAD, Grapher
- Finite Element Analysis Program (ANSYS)
- Design of Expert DOE, Minitab.

Training and Courses

- Attended a Course on "Methods of Teaching" at College of Education– Diyala University, Iraq in 2005.
- Attended a Training course on "IronCAD program" at University of Technology, Baghdad, Iraq, in 2009
- Completed an English Language Course at International Language Schools of Canda, New Delhi, India, in 2011.
- Completed an English Language Proficiency Course sponsored by the Indian Council for Cultural Relations at Jamia Millia Islamia (A Central University), New Delhi, India, in 2014.
- Completed English Language for five Courses in International School Languages (inlingua), New Delhi, India, during 2011 to 2013.

Languages

- English: Written and spoken
- Arabic: Mother tongue.

Employment History (Academic Experience)

- **Lecturer**, Department of Materials Engineering, Engineering College, Diyala University, Diyala, Iraq (2015 onward)
- **Lecturer,** Department of Mechanical Engineering, Engineering College, Diyala University, Diyala, Iraq (2009-2011).
- **Lecturer,** Department of Electrical Power Engineering, Engineering College, Diyala University, Diyala, Iraq (2005-2009).
- **Lecturer,** Department of Electrical Power and Electronic Engineering, Engineering college, Diyala University, Diyala, Iraq (1999-2002).
- **External lecturer** in the Mechanical Department, Technical Institute Technology, Baqubah, Diyala, Iraq (1999).

Courses Taught

Production Engineering, Manufacturing Processes, Metal Cutting, Advanced Metal Cutting, Metal Forming, Advanced Metal Forming, Engineering Plasticity, Application Mathematics, Statistical Data Analysis, Computer Aided Design and Manufacturing, Engineering design, Advanced Engineering Design, Production

Automation and Mechanization, Mechanics, Inspection and Materials Selection, Strength of Materials, Control and Measurement Instruments, Materials Science, Mechanical Drawing, Strength of Materials, Industrial Engineering, Workshop Technology, Design of Experiments, Research Methodology.

Journal Publications

1. **Suha K. Shihab**, Zahid A. Khan, Arshad Noor Siddiquee, *Application of Grey Relational Analysis Along with Principal Component Analysis for Multi-Response Optimization of Hard Turning,* International Journal of Engineering Trends and Technology (IJETT), 38 (5), pp. 238-245, August 2016.

2. **Suha K. Shihab, Ethar Mohamed Mahdi Mubarak,** Evaluation *of Surface Roughness and Material Removal Rate in End Milling of Complex Shape*, Universal Journal of Mechanical Engineering 4(3): 69-73, 1st July, 2016

3. **Suha K. Shihab**, Zahid A. Khan, Arshad Noor Siddiquee, *Analysis of chip morphology in dry hard turning of AISI 52100 alloy steel using RSM*, International Journal Machining and Machinability of Materials, 17(6), pp. 481–506, 2015

4. **Suha K. Shihab**, Zahid A. Khan, Arshad Noor Siddiquee, Noor Zaman Khan, *A Novel Approach to Enhance Performance of Multilayer Coated Carbide Insert in Hard Turning*, Archive of Mechanical Engineering, VOL. LXII, No. 4, pp. 539-552, 2015.

5. Noor Zaman Khan, Arshad Noor Siddiquee, Zahid A. Khan, **Suha K. Shihab**, *Investigations on tunneling and kissing bond defects in FSW joints for dissimilar aluminum alloys***,** Journal of Alloys and Compounds, Vol.648, pp.360-367, 2015.

6. **Suha K. Shihab**, Arindam Kumar Chanda, *Multi Response Optimization of Milling Process Parameters Using MOORA Method*, International Journal of Mechanical And Production Engineering, ISSN: 2320-2092, Volume- 3, Issue-4, April-2015.

7. **Suha K. Shihab**, Zahid A. Khan and Arshad Noor Siddiquee, *RSM Based Investigations on the Effects of Cutting Parameters on Surface Integrity during Cryogenic Hard Turning of AISI 52100***,** Journal for Manufacturing Science and Production, DOI 10.1515/jmsp-2015-0009, pp.1-10, 2015.

8. Noor Zaman Khan, **Suha K. Shihab**, Nidhi Sharma, Atif Wahid, Arshad Noor Siddiquee, Zahid A. Khan, *Investigation on the effect of WEDM process parameters on surface roughness***,** Global Sci-Tech, Vol.7, No.1, pp. 1-9, January- March 2015.

9. **Suha K. Shihab**, Zahid A. Khan and Arshad Noor Siddiquee, *Investigation on the effect of machining parameters on the corner radious in pocket milling***,** Global Sci-Tech,7 (4), pp. 1-7, October-December 2015.

10. **Suha K. Shihab**, Zahid A. Khan, Aas Mohammad, Arshad Noor Siddiquee, *A Review of Turning of Hard Steels Used in Bearing and Automotive Applications*, International Journal of Production & Manufacturing Research, Vol. 2, No. 1, pp.24-49, 2014.

11. **Suha K. Shihab**, Zahid A. Khan, Aas Mohammad, Arshad Noor Siddiquee, *RSM based study of cutting temperature during Hard Turning with Multilayer Coated Carbide Insert*, Procedia Materials Science, Vol.6, pp.1233 -1242, 2014

12. **Suha K. Shihab**, Zahid A. Khan, Aas Mohammad, Arshad Noor Siddiquee, *Cryogenic hard turning of alloy steel with multilayer hard surface coatings (TiN/TiCN/Al_2O_3/TiN) insert using RSM*, International Journal of Current Engineering and Technology, Special Issue-2, E-ISSN 2277 – 4106, P-ISSN 2347 – 5161, February 2014.

13. **Suha K. Shihab**, Zahid A. Khan, Aas Mohammad, Arshad Noor Siddiquee, *Investigations on the effect of CNC dry hard turning process parameters on surface integrity: a multi-performance characteristics optimization*, Int. J. Manuf. Sci. Prod (IJMSP), DOI 10.1515/jmsp-2013-0019, 2014.

14. **Suha K. Shihab**, Zahid A. Khan, Aas Mohammad, Arshad Noor Siddiquee, *Optimization of Surface Integrity in Dry Hard Turning Using RSM*, Sadhana, Vol. 39, Part 5, pp. 1035-1053, October 2014.

15. **Suha K. Shihab**, Zahid A. Khan, Aas Mohammad, Arshad Noor Siddiquee, *Investigation of Surface Integrity during Wet Turning of Hard Alloy Steel*, Int. J. Machining and Machinability of Materials, Vol. 16, No. 1, pp.22-37, 2014.

16. **Suha K. Shihab**, Zahid A . Khan, Aas mohammad, Arshad Noor Siddiquee, *Effect of Cryogenic Cooling on Surface Integrity in Turning of Hard Alloy Steel*, Indian Journal of Applied Research, Volume 3, Issue 7, ISSN - 2249-555X, pp. 3-7, July 2013.

17. **Suha K. Shihab**, Zahid A. Khan, Aas mohammad, Arshad Noor Siddiquee, *Effect of Cutting Parameters on Cutting Forces and MRR During Turning Hard Alloy Steel With and Without Coolant*, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Volume-3, Issue-1, pp.14-30, October 2013.

18. **Suha K. Shihab**, Zahid A. Khan, Aas mohammad, Arshad Noor Siddiquee, *Application of Response Surface Methodology for Determining Cutting Forces in Hard Turning Using Castrol Coolant*, Advanced Materials Manufacturing & Characterization, Vol. 3 Issue 1, pp.27-36, 2013.

19. Saad Theeyab Faris, **Suha Karim Shihab**, *Study and Design the Hydrodynamic Deep Drawing Process for Blanks of Non Uniform Thickness*, Diyala Journal of Engineering Sciences, pp. 40-56, 22-23 Dec. 2010.

20. **Suha K. Shihab**, *Finite Element Analysis of The Influence of Edge Roundness on The Stresses and Cutting Forces for Ceramic Cutting Tools*, Diyala Journal of Engineering Sciences, Vol. 02 , No.1, pp. 1-12 , June 2009

21. **Suha K. Shihab**, Ethar M. Mubarak, *Study of the Ceramic Cutting Tool Performance Using Double Rake Face***,** Diyala Journal of Engineering Sciences, Vol. 01, No. 01, pp. 1-18, 2008.

22. Maan Aabid Tawfiq, **Suha Kareem Shihab,** *A Finite Element Analysis of Orthogonal Machining UsingDifferent Tool Edge Geometries***,** Eng. & Technology, Vol.25, No.4, pp.569-583, 2007.

23. **Suha K. Shihab**, *Study the Effect of Depth of Cut on the Cutting Tool by Using Finite Element Method***,** Diyala Journal for Applied Research (DJAR),Vol.3, No.2, 2007.

Conference Publications

1. **Suha K. Shihab**, Zahid A. Khan, Aas Mohammad, Arshad Noor Siddiquee, *The Effect of Cutting Parameters on Surface Integrity during Hard Turning Using Castrol Coolant*, World Academy of Science, Engineering and Technology, Istanbul, Issue78, pp. 1703-1709, June 2013.

2. **Suha K. Shihab**, Zahid A. Khan, Aas Mohammad, Arshad Noor Siddiquee, *Analysis of cutting forces and material removal rate in dry hard turning using response surface methodology*, International Conference on Automation and Mechanical Systems, Faridabad, 21-22, pp.175-187, March 2013.

3. Jabbar Kasim Jabbar and **Suha Karim Shihab**, *Using Technique of Contact Element for Wire Drawing by Using Finite Element Method*, International Engineering Convention, Damascus, Syria, 11-14 May 2009.

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https://scholar.google.com/citations?user=U5I1_S0AAAAJ&hl=en