

Riyadh A. Al-Samarai

Mechanical Engineering, applied



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<https://scholar.google.com/citations?hl=en&user=SvK4BO8AAAAJ#>
https://www.researchgate.net/profile/Riyadh_A_Al-Samarai

EDUCATION

Ph.D. of Ph.D 2011- 2014-
Mechanical Engineering -
School of Mechatronic
Engineering, University
Malaysia Perlis, Malaysia
(UinMAP).

Master of 2000- 2003-
Mechanical Engineering -
Collage of Electrmecnaical
Engineering - Univ of
Technology-Baghdad.

Bachelor of B.Sc 1988-
1992- Mechanical
Engineering - Collage of
Electrmecnaical
Engineering - Univ of
Technology-Baghdad.

SKILLS

Experience in General Computer Program

Windows, words, Excel,
Power Point, Microsoft
team, and Photoshop

Experience in specialist Computer Program

Auto CAD, Mechanical 3D,
GIS, Infrawork.

Experience in Transportation Computer Program

Synchro and VISSIM Traffic
Simulation Software

SUMMARY

- I have the ability to work in preparing mold designs.
- I have the ability to supervise and manage plumbing and paint operations, with hands-on experience in team management.
- I have coordination capabilities with senior and junior staff for the smooth operation of industrial businesses, with flexibility in decision making.
- I can deal with work under pressure and prepare for overtime.
 - A wide range of experience in all aspects of plan development from conceptual design to detailed design.

PROFESSIONAL EXPERIENCE

- **Researcher**- 1993 – 2006 - Head of department of design molds and casting at the ministry of isndustrial.
- **Lecturer**-2006-2010 - Univ of Tikrit-Iraq
- **Lecturer** / Lab Experimental -2011- 2014- School of Mechatronic Engineering, University Malaysia Perlis, Malaysia.
- **University of Samarra**
 - September 2015 - July 2016
 - Department College of Engineering
 - Location Iraq
 - Position Director of Missions and Cultural Relations
- **University of Samarra**
 - April 2016 - May 2019
 - Department College of Engineering
 - Location Sāmarrā', Iraq
 - Position Assistant Dean for Scientific Affairs
- **University of Samarra**
 - May 2019 - Present
 - Department College of Engineering
 - Location Sāmarrā', Iraq
 - Position Assistant Dean for Administrative Affairs

WORK AREA:

- Mechanical Engineering, Engines.
- Materials Engineering (Metallurgy, Materials Characterisation, Failure Analysis), Tribology, (Wear Characteristics, Surface Roughness), Heat Treatment, Casting, Coating,

Publications

➤ *Research papers*

1. Effect of load and sliding speed on wear and friction of aluminum-silicon casting a

Others

Arabic and English language (writing, reading and speaking influence)

RA Al-Samarai, AKR Haftirman, Y Al-Douri
International Journal of Scientific and Research Publications 2 (3), 1-4

2. The influence of roughness on the wear and friction coefficient under dry and lubricated sliding
RA Al-Samarai, KRA Haftirman, Y Al-Douri
Int. J. Sci. Eng. Res 3 (4), 1-6

3. Evaluate the effects of various surface roughness on the tribological characteristics under dry and lubricated conditions
RA Al-Samarai, KRA Haftirman, Y Al-Douri
Journal of Surface Engineered Materials and Advanced Technology 2 (03), 167

4. Al-Samarai, Haftirman, Khairel Rafezi Ahmad, and Y. Al-Douri, Effect of load and sliding speed on wear and friction coefficient
A Riyadh
International Journal of scientific and Research publications 2 (3), 1

5. Effect of roughness of hypo- and hyper-eutectic Al-Si piston alloy on wear characteristics under lubrication
ARA Al-Samarai, KR Ahmad, Y Al-Douri
Procedia Engineering 53, 616-623

6. Tribological properties of WS₂ nanoparticles lubricants on aluminum-silicon alloy and carbon steels
RA AL-SAMARAI, ALD Yarub, H HAFTIRMAN, KR AHMAD
Walailak Journal of Science and Technology (WJST) 10 (3), 277-287

7. Nanosecond pulsed laser ablation to synthesize GaO colloidal nanoparticles: Optical and structural properties
Y Al-Douri, RA Al-Samarai, SA Abdulateef, AA Odeh, N Badi, CH Voon
Optik 178, 337-342

8. Comparative Study on Mechanical Properties of Steel by Numerical Analysis and Experimental Tests
NAF Amjed Mahmood, Riyadh A. Al-Samarai
AUS, n 26-25

9. Influence of WS₂ Nanoparticles Lubricants on Physical Characteristics of Wrought Aluminium Alloys
RA Al-Samarai, AS Mahmood, OM Ahmed
Iraqi Journal of Science 60 (6), 1240-1250

10. Lubricated Conditions Imposed on Coating Multi-layer on Wear Resistance Under Cr₂O₃ Effect
RA Al-Samarai, Y Al-Douri
Materials Research 21 (4)

11. Comparison of the Effects of Surface Roughness of Wrought Aluminium Alloys on the Surface of Steel
Riyadh A. Al-Samarai, School of Engineering, University of Samarra, Samarra ...
RRJOMS | 5 (Issue 6), DOI: 10.4172/2321-6212.1000203

12. Effect of Si Addition on Microstructure and Tribological Properties of Al-0.1Mg-0.35Ni-(4, 6, 8, 10) wt %Si Alloys
Riyadh A. Al-Samarai * School of Engineering, University of Samarra ...
Int J Adv Technol, an open access journal 8 (4), 0976-4860

13. Investigation of the Tribological Behavior of Eutectic Al-Si Casting Alloy
Riyadh A. Al-Samarai * School of Engineering, University of Samarra
Tikrit Journal of Engineering Sciences 3 (24), 42 - 46

14. Effect of Heat Treatment on Tribological Characteristics of eutectic Al-Si alloy
Riyadh A. Al-Samarai, Omar M. Ahmad, School of Engineering, University of ...
Al-Utrouha for Engineering Science and Technology 181-167 +5.

15. THE TRIBOLOGICAL BEHAVIOR OF HYPO- AND HYPER-EUTECTIC Al-Si ALLOYS UNDER DRY SLIDING CONDITIONS
Riyadh A. Al-Samarai, Haftirman, Khairel Rafezi Ahmad, Y. Al-Douri
International Journal of Mechanical and Production Engineering Research and ...

16. Comparative Study on Mechanical Properties of Steel by Numerical Analysis and Experimental Tests
AS Mahmood, RA Al-Samarai, NA Fadhil.

➤ *conferences*

1. Effect of Cycling Skills on Bicycle Safety and Comfort Associated with Riyadh A. Al-Samarai, Haftirman, Khairel Rafezi Ahmad, Y. Al-Douri. (2011). Study the causes of wear in a metal piston (Al-Si) casting and methods of reduce

friction. A Review. *International Postgraduate Conference on Engineering (IPCE2011)*. 22-23rd Oct 2011. Perlis. Malaysia.

2. **Riyadh A. Al-Samarai**, Haftirman, Khairil Rafezi Ahmad, Y. Al-Douri. (2012). (2012). Dry sliding wear behaviour of A390 hypereutectic (Al–Si) alloy. *International Conference on Applications and design in mechanical Engineering (ICADME 2012) 27-28, February 2012 Malaysia*.
3. **Riyadh A. Al-Samarai**, Haftirman, Khairil Rafezi Ahmad, Y. Al-Douri. (2012). WS₂ nanoparticles effect on the tribological properties of aluminum-silicon casting alloy. *AMTEC UTM, Johor Bahru, Malaysia 6–7th March 2012*.
4. **Riyadh A. Al-Samarai**, Haftirman, Khairil Rafezi Ahmad, Y. Al-Douri (2012). Effect of Roughness of Hypo-and Hyper-Eutectic Al-Si Piston Alloy on Wear Characteristics under Lubrication. *Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2012)*. 20 - 21 November Perlis. Malaysia. 2012. **Bronze award**.

➤ Exhibitions

1. Haftirman, **Riyadh A. Al-Samarai**, Khairil Rafezi Ahmad, Y. Al-Douri (2012). Surface roughness between its sliding for piston applications, *Universiti Malaysia Perlis. Perlis, Malaysia 11 Nov.2011, silver award*.
2. **Riyadh A. Al-Samarai**, Haftirman, Khairil Rafezi Ahmad, Y. Al-Douri (2012). Tribological property of nanoparticles WS₂ lubricants on aluminum-silicon & carbon steels. *International Workshop on Advanced Materials, 19-21 February 2012. Ras Al Khaimah-U.A.E*.
3. **Riyadh A. Al-Samarai**, Haftirman, Khairil Rafezi Ahmad, Y. Al-Douri (2012). Tribological property of nanoparticles WS₂ lubricants on aluminum-silicon & carbon steels. *Universiti Malaysia Perlis. Perlis, Malaysia 11 Nov.2011, silver award*.

➤ Chapters (5,12) <https://www.elsevier.com/books/metal-oxide-powder-technologies/al-douri/978-0-12-817505-7>

5. Surface modification, including polymerization, nanocoating, and microencapsulation

- January 2020
- [10.1016/B978-0-12-817505-7.00005-1](https://doi.org/10.1016/B978-0-12-817505-7.00005-1)
- In book: Metal Oxide Powder Technologies
- 12. Metal oxides powder technology in energy technologies
- January 2020
- DOI:
- [10.1016/B978-0-12-817505-7.00012-9](https://doi.org/10.1016/B978-0-12-817505-7.00012-9)
- In book: Metal Oxide Powder Technologies