

# Yaser A. Al-Shataif - Lecturer

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## EDUCATION

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### Admitted for Ph.D. (2021-2022) at:

King Fahd University of Petroleum and Minerals (KFUPM)~~KSA

The National University of Malaysia (UKM) ~~Malaysia

### Qassim University, Qassim engineering College

MSc, Master of Science. Mechanical Engineering. GPA: 4.94/5.00 (Excellent)

Qassim, KSA

Expected Oct 2020

### Qassim University, Qassim engineering College

BSc, Bachelor of Science. Mechanical Engineering. GPA: 3.96/5.00 (Very Good)

Qassim, KSA

2009-2014

## RESEARCH EXPERIENCE

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### Qassim University, Qassim engineering College.

Qassim, KSA

*MSc Student:*

2017- Present

- Designed and synthesized four novel high entropy alloys (HEAs) through mechanical alloying process.
- Analyzed, investigated and examined the microstructure and mechanical behavior of (HEAs).
- Performed XRD analysis on data sets using Origin and X'pert highscore plus.
- Analysis of compatibility and compressibility behavior experimentally and theoretically.
- Prepared paramagnetic salts and characterized roughness parameters of ultrafine grains materials.
- Perfumed several simulation models (Mechanical behavior, Nanohardness and Flow & erosion behavior) by ANSYS 17.0.
- Taking online course (Pythons, Machine learning, Mechanic of materials, Material behaviors .... etc.).

### Qassim University, Qassim engineering College.

Qassim, KSA

*Research associate:*

2014- 2017

- Designed, developed and executed experimental test for corrosion erosion behavior through Slurry Pot rig and water jet tester rig.
- Produced ultrafine grain and nanocrystalline structure of (Ti, Mg, Al, Cu, Fe and Ni) alloys through SPD such ECAP and MAF.
- Researched and Synthesized Graphene nanoplates (GNP) reinforcement on Al alloy.
- Performed machining on AA 7075 and tested the roughness behavior though 2D and 3D optical profiler.

## PUBLICATIONS

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- **Yaser A. Alshataif**, S. Sivasankaran, Fahad A. Al-Mufadi, H. R. Ammar, Abdulaziz S. Alaboodi. Synthesis, structure, and mechanical response of  $\text{Cr}_{0.26}\text{Fe}_{0.24}\text{Al}_{0.5}$  and  $\text{Cr}_{0.15}\text{Fe}_{0.14}\text{Al}_{0.30}\text{Cu}_{0.13}\text{Si}_{0.28}$  nanocrystallite entropy alloys, *Advanced Powder Technology*, 2020.
- **Yaser A. Alshataif**, S. Sivasankaran, Fahad A. Al-Mufadi, H. R. Ammar, Abdulaziz S. Alaboodi, Synthesis, Microstructures and Mechanical Behaviour of  $\text{Cr}_{0.21}\text{Fe}_{0.20}\text{Al}_{0.41}\text{Cu}_{0.18}$  and  $\text{Cr}_{0.14}\text{Fe}_{0.13}\text{Al}_{0.26}\text{Cu}_{0.11}\text{Si}_{0.25}\text{Zn}_{0.11}$  Nanocrystallite Entropy Alloys Prepared by Mechanical Alloying, *Metals and Materials International*, Mar, 2020.
- **Yaser A. Alshataif**, S. Sivasankaran, Fahad A. Al-Mufadi, Abdulaziz S. Alaboodi, Hany R. Ammar. Manufacturing Methods, Microstructural and Mechanical Properties Evolutions of High-Entropy Alloys: A Review. *Metals and Materials International*, Dec, 2019.
- H. Zein, **Yaser Al-Shataif** A State of the Art Review of Dispersion and Inspection Techniques for Carbon Nanotubes (CNTs) into Matrix Composites," *Materials Transactions*, 2020 Volume 61 Issue 1 Pages 14-26.
- Osama M. Irfan, Fahad Al-Mufadi, **Yaser A. Al-Shataif** and Faramarz Djavanroodi, Effect of Equal Channel Angular Pressing (ECAP) on Erosion-Corrosion of Pure Copper, *Appl. Sci.*, 2017, vol. 7, p. 1250.
- Hussein ZeinI, Fahad Al-Mofadui, **Yaser A. Al-Shataif**, Improving Surface Texture by Investigating the Influence of Number of Passes and Cutting Conditions in Face Turning Process for Pure Copper Produced by ECAP, *IJMME-IJENS Vol:20 No:02, Apr,2020.*

**Qassim University.***Lab Technician/ Lab Tutor*

2014-

Present

- Supervised lab experiments, ensure standard safety and assisted using equipment's lab.
- Oversaw and evaluated student's laboratory work.
- Taught basics of Engineering Drawing via AutoCAD.
- Taught basics of Mechanical Drawing via SOILDWORKS.
- Performed all the mechanical behavior tests (tensile test, compressive test, bending test, impact test, shear test and hardness)
- Performed all type of casting experiments (Sand casting, Investment casting, Die casting and Lost-foam casting).
- Prepared metallographic specimen and used scanning electron microscope (SEM) to study the material microstructure.
- Excellent shop and safety skills honed from working as a machinist and welder, designing and fabricating mechanical test fixtures.
- Operating, maintaining and calibrating lab instruments.
- Dealing with problems by heuristics and algorithms that lead to applicable models using spreadsheets, Gantt Charts and Flowcharts.
- Evaluated potential market to project size and value of new technologies.
- Performed competitor analysis by investigating corporations with related products on the market.
- Identified companies with the necessary expertise and resources to bring technologies.

**Applied Science College Research Center, Qassim University.***Head department's assistant*

2016-2017

- Categorized, processed and pre-reviewed the applicants' proposals.
- Data analyzer.
- Organized workshops, symposiums, seminars related to Center conferences and publications.

**Amjad Institution for academic studies, Thamar, Yemen.***Lecturer*

2016-2017

- Taught Basics of physics and mathematical for university's freshmen.
- Trained applicants for universities environments and prepared them for acceptance examinations.

Summer 2016

Summer 2017

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**TRAINING EXPERIENCE**

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**General Directorate of Projects and Maintenance (GDPM) at Qassim University.***Trainee.*

2012-2013

- Trained as building maintenance engineer for 4 months.
- Trained at consultant engineer in the Qassim hospital building, student and staff housing building, computer science building.
- Designed cooling loads for lady's college buildings.

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**TECHNICAL SKILLS**

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- **Advanced Computer Skills in:** Finite Element Modeling ANSYA 18.1, writing G&M code of CNC, Python 3.8, MATLAB, SOILDWORKS 2018, AutoCAD 2014, OriginPro 2018, X'pert highscore plus, Adobe Photoshop and Microsoft Office.
- **Language** English - Advance.  
German - Beginner.  
Arabic - Native.

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**References**

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- **S. Sivasankaran**, Mechanical Engineering Department, Engineering College, Qassim University, Saudi Arabia  
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- **Fahad A. Al-Mufadi**, Mechanical Engineering Department, Engineering College, Qassim University, Saudi Arabia  
Contact Info: [almufadi@qec.edu.sa](mailto:almufadi@qec.edu.sa), Tel: +966-530-337-474
- **Faramarz Djavanroodi**, Mechanical Engineering Department, Imperial College, London, UK.  
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