

### **Personal Information**

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## Mechanical Engineer



### **Profile personally**

An engineer specialized in the field of residual stress analysis in ceramic coatings, in addition to the possibility of teaching in all universities because I hold a master's degree in mechanical engineering (applied branch) and many specialized courses in the field of university education.

### **Languages**

- ✓ **Native Language:** Arabic
- ✓ **Another Language:** English

### **Academic Experiences**

- ❖ *Asst. Lect at Department of Mechanical Technologies Technical Institute – Baquba From 2018-2020.*
- ❖ *Asst. Lect at Department of Material Engineering of College of Engineering/ University of Diyala until now.*

### **Education**

- ❖ **Bachelor of Mechanical Engineering/Diyala University (2010 -2014).**
- ❖ **Master of Mechanical Engineering/Diyala University (2018).**

### **Certificates and courses**

1. Certificate of aptitude for teaching from the University of Technology 2019.
2. Course teaching methods from the University of Diyala 2018.
3. Arabic language safety course from Diyala University 2019.
4. Computer Proficiency Course from Diyala University 2019.
5. (3) Research published in international journals.
6. (3) Letters of thanks and appreciation (1) from Diyala University and (2) from Bulgaria.
7. Certificates of participation in workshops and seminars in the field of e-learning.

### **Research Publication**

1. Mahmoud, Adel K., Zaid S. Hammoudi, and Samah Rasheed. "Evaluation of the residual stresses in 95wt% Al<sub>2</sub>O<sub>3</sub>-5wt% SiC wear protection coating using X-Ray diffraction technique." *IOP Conference Series: Materials Science and Engineering*. Vol. 311. No. 1. IOP Publishing, 2018.
2. Mahmoud, Adel K., Zaid S. Hammoudi, and S. R. Hassan. "EVALUATION OF THE RESIDUAL STRESSES IN ADVANCED COMPOSITE CERAMIC COATINGS USING X-RAY DIFFRACTION AND FINITE ELEMENT TECHNIQUES." *Materials Science. Non-Equilibrium Phase Transformations*. 3.5 (2017): 184-187.
3. Mahmoud, Adel K., Salim Farman, and Samah R. Hassan. "Evaluation of the residual stresses in advanced composite ceramic coatings using x-ray diffraction techniques." *Machines. Technologies. Materials*. 12.11 (2018): 466-468.
4. Alnassar, S. I., Kadhim, H. M., Hassan, S. R., Mahmoud, A. K., & Alrubaiy, A. A. (2023). Synthesis of nano-SiC reinforced nickel-based nanocomposite coating using electroless deposition technique. *Materials Today: Proceedings*.