

Asst. Prof. Dr. Saeed Rajab Yassen Rekani

College of Engineering, University of Duhok,

Duhok, Kurdistan Region, Iraq

saeed.rajab@uod.ac, 00964 750 290 2222

Date of Birth: July 1st, 1975. **Duhok**

General Specialization: Mechanical Engineering.

Specific Specialization: Fluid Mechanics/ Computational Fluid Dynamics.



LANGUAGE

Kurdish: Mother Tongue.

English : Very Good.

Arabic : Excellent.

VISION

My vision is to work with creativity and insight with good Universities in the areas of Research and Development for the betterment of self and others on the belief of hard working, honesty, risk taking, service, teamwork and cooperation.

EDUCATION

School of Engineering & Technology, University of Hertfordshire, Hatfield, UK.

Doctor of philosophy in mechanical engineering, May 2014.

Thesis: "Optimization of the performance of micro hydro-turbines for electricity generation".

College of Engineering, AL-Mustansiriya University, Baghdad, Iraq.

Master of science in mechanical engineering (power), March 2003.

Thesis: "Study of erosion effect on water-turbines performance due to cavitation of Mosul dam".

College of Engineering, University of Mosul, Mosul, Iraq.

Bachelor of Science in Mechanical Engineering, Oct. 1st 1998.

WORK EXPERIENCE

College of engineering – University of Duhok, Duhok, Kurdistan.

- Member of the teaching staff at mechanical engineering department (present).

College of engineering - Salahaddin University - Erbil, Erbil, Kurdistan.

- Head of petroleum and chemical engineering department (2015 – 2019).
- Quality assurance representative of the college of engineering (2015 – 2016).
- Deputy dean of the college of engineering (2010).
- Deputy head of the mechanical engineering department (2004).
- Library manager of the college (2003 – 2005).
- Member of the teaching staff at mechanical engineering department (2003 – 2018).
- Member of the teaching staff at Chemical & Petrochemical engineering department (2017 – 2020).

PUBLICATIONS

- [1] S. Yassen, “**CFD Analysis of the Gap Effects on the Flow Characteristics of Hydraulic Turbines**” ZANCO Journal of Pure and Applied Sciences, ZJPAS (2016) 28 (2) 312 – 324.
- [2] S. Yassen, “**3D CFD Simulation and Experimental Study of a Water Jet Impingement**” Kufa Journal of Engineering, Vol (10) No. 4, October 2019, P.P. 53 - 65.
- [3] E. Karash, S. Yassen and M. Qasim, “**The Effect of the Cutting Depth of the Tool Friction Stir Process on the Mechanical Properties and Microstructures of Aluminum Alloy 6061-T6**” American Journal of Mechanics and Applications, ISSN: 2376-6115, doi; 10.1164/j.ajma.2015030.11.
- [4] S. Atrooshi and S. Yassen, “**Hybrid Renewable Energy CO-generation – A Comparative Study**” ZANCO Journal of Pure and Applied Sciences, ZJPAS (2016) 28 (1) 29 -36; DOI 10.
- [5] S. Atrooshi and S. Yassen, “**Turbulence Model Effects on the Modelling Simulation of Hydraulic Turbines**” Polytechnic Journal, vol (7) No. 1, January 2017.
- [6] S. Yassen, “**Investigation of the Effects of Number of Blades on the Performance of Cross-flow Turbine Using STAR CCM+**” Polytechnic Journal, vol (7) No. 4, January 2017.
- [7] E. Karash and S. Yassen, “**Effect of Friction Stir Welding Parameters on the Impact Energy Toughness of the Aluminum Alloys 6061 – T6**” Annals of Dunarea de jos University of Galati, vol (29), December 2018.

OTHER RELEVANT CERTIFICATES

- **ANSYS** simulation code (computational fluid dynamics) Oxford/ UK,
- **STAR-CCM+** simulation code (computational fluid dynamics) London/UK,
- **Phoenics** simulation code (computational fluid dynamics), London/UK,
- **CATIA V5** computer aided design (CAD) program.

RELEVANT SOCIETIES MEMBERSHIP

- Member of the Kurdistan syndicate of engineers/ **Kurdistan**.
- Member of the Iraq union of engineers/ **Iraq**.
- Member of the institution of mechanical engineers (2013)/ **UK**.
- Member of the institution of engineering and technology (2013)/ **UK**.

AWARDS AND HONOURS

- Academic Excellence Award 2019 - 2020.
- Academic Excellence Award 2018 - 2019.
- Academic Excellence Award 2017 - 2018.
- Academic Excellence Award 2016 - 2017.
- Academic Excellence Award 2015 - 2016.
- Academic Excellence Award 2014 - 2015.

ACADEMIC / TEACHING SUBJECTS

- **Fluid mechanics** (Mechanical Eng. Department, College of Engineering, Salahaddin University-Erbil),
- **Gas dynamics** (Mechanical Eng. Department, College of Engineering, Salahaddin University-Erbil),
- **C++ programming** (Mechanical Eng. Department, College of Engineering, Salahaddin University Erbil),
- Computer aided design software (**CAD**), Catia V5 Computer Lab - (UK),
- **Thermodynamics** Labs (UK), and
- **Heat transfer** Labs (UK).
- **Engineering Analysis** (Mechanical Eng. Department, College of Engineering, University of Duhok),
- **Numerical Analysis** (Mechanical Eng. Department, College of Engineering, University of Duhok),

SKILLS

- C++ programming, **ANSYS**, **STAR CCM+** and **PHOENICS** CFD simulation.
- Computational fluid dynamics (**CFD**) simulation.
- Computer aided design software (**CAD**), Catia V5.