

MUSTAFA AL KAYED

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Summary of Qualifications

- In academic sector, more than 8 years in research field besides teaching courses related to the design and modeling of hydraulic engineering and structures along with laboratory experiments. Furthermore, teaching other courses such as: Statics, Technical writing, Probability and statistics for engineers, and Sanitary and environmental engineering lab, Highway lab, Environmental engineering, Unit operation in wastewater and Site remediation.
- More than 15 years of experience in the construction of water, stormwater, wastewater and irrigation pipelines and associate structures (manholes, outfalls, pumping stations, etc.).
- More than 5 years of broad experiences in the maintenance of roads (milling, batching, seal treatments, asphalt treatments, etc.), road construction, and infrastructure development works.
- Excellent knowledge in the implementation of dewatering systems for construction of pipeline networks and underground structures with high water table level.
- Very good knowledge in developing the performance of Hydrocyclone separator especially in the oil sands field

Technical skills

- Excellent skills in the Computational Fluid Dynamics (CFD) software (Gambit and Fluent).
- Primavera system, Microsoft Project, and Windows office tools.
- Professional using of the Laser Doppler Anemometry (LDA) device.
- GoldSET Software, a sustainability decision support tool for environmental management developed by Golder Associates for site remediation.
- Model Maker Software; simulate the pollutant transport in rivers and lakes.

Publications and Conferences

- 1) **Journal of Hydraulic Engineering**, November 2012, Vol. 138, No. 11 : pp. 970-973, American Society of Civil Engineers (ASCE), “**LDA Measurement in Cylindrical Containers without using Planar Secondary Units**”.
 - 2) **Journal of Mining and Metallurgy**, Section B: Metallurgy - vol. 48 (2) B – Oct. 2012, pp 197-206, “**CFD simulations of a hydrocyclone in absence of an air core**”.
 - 3) 22nd Canadian Hydrotechnical Conference proceeding , Montreal, Quebec, April 29 – May 2, 2015, MEASURING REYNOLDS STRESSES IN THE FLOW FIELD OF HYDROCLONES.
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Professional Experience

❖ **Instructor in the Civil Engineering Department**

Al-Zaytoonah University, Amman, Jordan

Feb. 2010 – present

www.alzaytoonah.edu.jo

Mustafa Alkayed

- Establish and set up new civil engineering laboratories: strength of materials lab, geotechnical engineering lab, construction materials lab, surveying lab, wastewater (sanitary) and environmental engineering lab, hydraulics lab and highway lab.

- Courses taught:

Probability and Statistics for Engineers, Introduction to civil engineering design, Engineering mechanics (Statics & Dynamics), Fluid mechanics, Hydraulics, Hydrology and water resources engineering, Technical Writing, Hydraulics Lab, Sanitary and Environmental Engineering Lab, and Pavement lab.

❖ **Research and Teaching Assistant**

Sep. 2005 – June 2009

Concordia University, Montreal, Quebec, Canada

www.concordia.ca

Conduct a research project regarding the flow field patterns and performance of a 6" hydrocyclone separator in the Water Resource Lab at Concordia University, Montreal, Canada. The research consists of experiments using LDA, flow visualization technique and CFD simulation uses Gambit and Fluent software. The research was under supervision of Professor Dr. A.S. Ramamurthy.

❖ **Acting Project Manager and Project Engineer**

April 1997- August 2005

Bin Hafeez Est., Abu Dhabi and Dubai, United Arab Emirates (UAE)

❖ **Deputy Project Manager**

Dec. 1994 - Feb.1997

Saif Bin Darwish Civil Engineering Contractor, Al-Ain City, United Arab Emirates (UAE)

❖ **Project Manager**

July1990 - Nov.1994

Saleh and Abdulaziz Abahusain Company, Riyadh & Damman, Saudi Arabia

❖ **Site Engineer**

Sep. 1987- Jan.1990

Hudhudshand LTD (Contractor), Amman, Jordan

❖ **Site Inspector**

Sep.1985 – Aug.1987

Royal Corps of Engineers, Jordan

Education

- 1) Candidate of Ph.D. in Civil Engineering, Concordia University, Canada, Quebec, Montreal
May 2012 - present
- 2) Master of Applied Science (M.A.Sc) in Civil Engineering, Concordia University, Montreal, Canada
Sep. 2005 – June 2009
- 3) Bachelor Degree in Civil Engineering, Yarmouk University, Irbid, Jordan

Sep.1980 – June 1985

Represented Al-Zaytoonah University in many conferences and workshops from 2010 to now.
References are available upon request.