

Altayeb Mahfouth

Cell: +218 (92) 408-0149; E-mail: Altayeb_m85@yahoo.com

PERSONAL PROFILE

- Vast experience in design and detailed manufacturing drawings
- Focused on analyze and resolve possible failures in designs and systems.
- Project oriented and skilled at handling diverse responsibilities.
- Strong and effective leader with excellent analytical and communicational skills, committed to promote teamwork.
- Proven leadership and decision-making skills as well as ability to learn fast and follow directions.
- Able to develop innovative solutions to difficult problems, generally on the spot.
- Detailed oriented and highly motivated performance driven mechanical engineer.

EDUCATION

Master of Applied Science (MAsc) University of Victoria (UVic), Canada, Sep 2014-Dec 2016

(GPA: 8.4/9)

- Member of the Institute for Integrated Energy Systems (IESVIC)
- Member of Sustainable System Design Lab (SSDL)
- Machine Dynamics (TA)
- Participating for operating and repairing suspended apparatuses in Fluids Research Lab (UVic)

Intensive Course in the Academic English Language Vancouver, BC, Canada Apr 2013 – Apr 2014

- Advanced academic level University of British Columbia (UBC)
- Pre Advanced academic level International Language Academy of Canada (ILAC)

B.S in Mechanical Engineering University of Zawia, Libya, Jan 2004- Jun 2008

(GPA: 7.1/9)

TECHNICAL SKILLS

- Modeling software - AutoCAD, Solidworks
- Analysis software - Solidworks
- Manufacturing software – MasterCAM, Vericut
- Matlab, Fortran, NC programing
- MS Office, MAC/Windows operating system

PROFESSIONAL PROFILE

Laboratory Technician and Teacher Assistant Sabratha University, Libya Feb 2018-Present

- Teacher Assistant; Hydraulic lab I, II &III, Fluid Mechanics, Dynamics
- Responsible for operating and repair suspended apparatuses for Hydraulic labs

Le Coteau Nursery (Part-time job) Victoria, BC, Canada 2015 - June 2017

- Operating and maintaining machinery and equipment (chipper, lawn mover, chainsaws, blowers, string trimmer, hedge trimmer, smaller vehicles and tractors, come-along and other mechanical advantage devices)
- Kept work area clean and presentable.
- Provided customers with information about different plants. Helped them; understood their requirements, recommended solutions and assisted them to obtain the required trees and plants.
- Responsible for maintaining the irrigation system, the boiler and the heating system and making sure they perform as per manufacturer guidelines.
- Performing maintenance duties as directed by a supervisor

Hydro Kinetic turbine Researcher (UVic) Victoria, BC, Canada 2014 - Dec 2016

- Investigation study, in the Canadian Hydro Kinetic Turbine Test Centre (CHTTC), of the flow characterization in the Winnipeg River. Winnipeg, MB Canada
- Writing Matlab programs for analysing collected data
- Designing and manufacturing fractal grids
- Experiments regarding wake structure, airfoil analysis and blade performance

Laboratory Technician and Teacher Assistant University of Zawia, Libya Jan 2010-Feb 2013

- Teacher Assistant; Hydraulic lab I, II &III, Fluid Mechanics, Engineering Drawing
- Responsible for operating and repair suspended apparatuses for Hydraulic lab I, II &III

Workshop for Repairing and Servicing Tractor-Trailer Libya, 2009

- Welding
- Designing
- Organized tool box
- Ensured all the work is performed as per workshop guidelines

SCHOOL PROJECTS

- Formula Hybrid Vehicle Cooling System Sep - Dec 2014
- Finite Element Analysis and Validation of a connecting rod of Hero Honda splendor
- Sensitivity / Optimization Analyses of a connecting rod of Hero Honda splendor Jan - Apr 2015
- Manufacturing Process (Designing molds generated) May-Aug 2015

CONTRIBUTIONS

[1] Mahfouth A., Birjandi A. H., Crawford C., Bibeau E. L., “Turbulence Characteristics Through the Water Column in an Open Channel for Hydrokinetic Turbine Deployment,” *Marin Energy*. (under processing) (2016).

[2] Mahfouth A., Crawford C., “Experimental study of fractal generated turbulence using PIV,” *physics of fluids*. (under processing) (2016).

[3] Mahfouth A., and Crawford C., “An experimental study of fractal generated-turbulence influence on horizontal axis hydrokinetic turbine performance,” (under processing) (2016)

[4] Mahfouth A., and Crawford C., “Generating real-world turbulence properties in a water tunnel using multiscale grids,” (under processing) (2018)

PERSONAL INTEREST

- Swimming
- Walking
- Volunteer
- Watching documentaries

References available upon request