

## Resume

### Profile

Adel Redha is a PhD candidate at the University of British Columbia, Canada. He has more than 18 years' experience in mechanical engineering. He carries a Bachelor's degree (1993) and a Master's degree (1997) in Mechanical Engineering. He is specialized in computerised fluid dynamics (CFD) and energy engineering.

### Educations

- Master of Science in Mechanical Engineering, (Thermo-fluid)  
University of Baghdad/Baghdad/Iraq – 1997.
- Bachelor of Science in mechanical engineering with major of (Aeronautics).  
University of Baghdad/Baghdad/Iraq - 1993.

### Professional Experience

No.	Organization	Professional Experience	Positions Held	From	To
1	EnEta Energy Engineering Inc.	CFD simulation of commercial buildings' interior environment	Fluid Mechanics Engineer (part time)	2016	present
2	UBC	PhD Candidate, CHBE-UBC Biomass and Bioenergy Research Group	PhD candidate	2014	present
3	American University of Sharjah  "Sharjah, UAE"	<ul style="list-style-type: none"> <li>- Giving a demonstration Recitations and conducting experiments for undergraduate students using lab machineries and facilities.</li> <li>- Manage &amp; Support high technical projects for undergrads &amp; graduate students.</li> <li>- Periodical maintenance for the systems and apparatus in thermodynamics lab, heat transfer lab, Air conditioning lab, fluid lab, internal combustion lab.</li> <li>- Recommended the purchasing of</li> </ul>	Mechanical Engineering Lab Instructor	2007	2010



		<p>appropriate machinery and lab apparatus.</p> <ul style="list-style-type: none"> <li>- Installation &amp; Commissioning of new acquired machines.</li> <li>- Design and implement modifications of machines for customizing purposing and American University of Sharjah usage.</li> </ul>			
4	<p><b>Emirates Aviation college</b>  "Dubai/ UAE "</p>	<p>Teaching the following courses :</p> <ul style="list-style-type: none"> <li>- Engineering Design ( higher National Diploma)</li> <li>- Basics Science and Math I&amp;II ( National Diploma)</li> <li>- AutoCAD drawing ( Bachelor Degree)</li> </ul>	Adjunct Teacher	2007	2007
5	<p>Ghany Sadoon Consulting Engineers  SHARJAH / UAE</p>	<p>Supervision on Mechanical systems Design, Site supervision on MEP.</p>	Consultant Engineer/ Part time	2007	2007
6	<p>Shams El Salam for electro-mechanics  Dubai/UAE</p>	<ul style="list-style-type: none"> <li>- Design review of Piping and pumping system ,</li> <li>- Supervision on the AutoCAD working drawing of the piping system.</li> </ul>	Supervisor Mechanical Engineer/ Part time	2007	2007
7.	<p><b>University of technology</b>  "Baghdad / Iraq"</p>	<ul style="list-style-type: none"> <li>- Teaching courses in mechanical Engineering</li> <li>- Conducting experiments for undergraduate students using lab machineries and facilities.</li> <li>- Manage &amp; Support high technical projects for undergrads &amp; graduate students.</li> </ul>	Teacher	2005	2007
8	<p><b>Water distribution and drainage company</b>  "Gharyan /Libya"</p>	<ul style="list-style-type: none"> <li>- Design and construction consultancy of piping and pumping system for drinking water of Gharyan City/Libya.</li> </ul>	Designer/Par-time	2004	2005

**Academic Teaching Experience.**

<b>Courses</b>	<b>Period</b>	<b>Location</b>
Fluid Mechanics	2007- 2010	AUS
Air conditioning	(2005,2010 )	AUS
Thermodynamics	(2005-2010)	University of Technology + AUS
Energy Conservation and Management /Using TRNSYS	2008 -2010	AUS
Turbo-machinery	(2008-2010)	
Engineering Drawings	2005-2007	University of Technology + AUS
Heat Transfer	2008-2010	AUS

**Professional Training Received**

<b>Lab</b>	<b>Period</b>
- Engineering Drawings Lab	(2005-2006)
Air-Conditioning Lab using IDA ICE (Energy modeling and cooling load estimation) and (DKsolar cooling load simulation)	(2007-2008)
Energy Conservation and Management using TRNSYS	(2008)
Visual Basics Lab (Programming)	(2006)
Thermodynamics Lab	(2006, 2010)
Fluid Mechanics Lab.	(2006,2010)
Heat Transfer Lab.	(2008-2010)
AutoCAD Drawing	(2007)
Internal Combustion Engine Lab	(2008-2010)
Computational Fluid Dynamics Lab (ANSYS/CFX; Fluent )	(2008-2010)

**Computer Software Experience:**

<b>Software name</b>
- IDA ICE –Indoor Climates and Energy ( for A/C and Energy Modeling )
- DK Solar Version 4.5 (cooling Load simulation and energy Assessment)
- ANSYS- CFX and Fluent (Computational Fluid Dynamics –CFD- Simulation)
- EES (Engineering Equation Solver)
- Visual Basics (Programming)
- MS Office and Windows
- AutoCAD Drawing (2D and 3D)

**Additional Qualifications**

- Green building and LEED® (AP) certificate preparation / AUS proficienal improvement course.
- Energy Conservation and Management /AUS academic course.
- Project Manager Processes PMP training Certification.
- MS Project software training Certificate .

**References:**

- Anthony Lau, Associate professor of, Advisor MEng, Faculty of Applied Science, Chemical and Biological Engineering Dept. University of British Columbia. Vancouver Campus-Office (247)-2360 East Mall Vancouver, BC Canada V6T 1Z3. anthony.lau@ubc.ca
- Salah Mahdi, PEng, CEM, CMVP, BEMP, LEED®AP, MSc. President at Eneta Energy Engineering Inc. 34-1108 Riverside Close, Port Coquitlam V3B 8C2 BC Canada. Salah@EnEta.ca. Tel.7788917802.
- Dr. Ibrahim Dincer, Professor of Mechanical Engineering, Faculty of Engineering and Applied Science, University of Ontario Institute of Technology (UOIT), 2000 Simcoe Street North, Oshawa, Ontario L1H 7K4, Canada, Tel: 905-721-8668 ext: 2573, Cell: 905-441-2229, Fax: 905-721-3370, E-mail: Ibrahim.Dincer@uoit.ca