

PERSONAL INFORMATION



Asst. Prof. Dr. Eng. Qahtan A. Abed

📍 Engineering Technical College of Najaf, Al-Furat Al-Awsat Technical University., 31001 Najaf (Iraq)

☎ +9647811607580 📠 +0040727437583

✉ qahtan.abed@etcn.edu.iq or qahtan77@yahoo.com

💬 Skype qahtan1977

Sex Male | Date of birth 10/09/1977 | Nationality Iraqi

PERSONAL STATEMENT

I have a clear, logical mind with a practical approach to problem solving and a drive to see things through to completion.

WORK EXPERIENCE

14/07/2000–Present

Mechanical engineer

Engineering Technical College of Najaf/ Al-Furat Al-Awsat Technical University.
str. Abu-skuer, Najaf (Iraq)
<http://www.etcn.edu.iq/>

Business or sector Education

14/07/2000–05/04/2004

Mechanical engineering technician

University of Technology, Iraq, Baghdad (Iraq)

05/04/2004

Engineer

Engineering Technical College of Najaf - Automobiles Engineering Department, AL Najaf (Iraq)

EDUCATION AND TRAINING

01/10/1996–13/07/2000

B.Sc. In Mechanical Engineering

University of Technology, Baghdad (Iraq)

General

- English, Mathematics, Heat transfer, Thermodynamics, Air conditioning

Occupational

- Power laboratory, Design laboratory

18/10/2005–13/12/2007

Master of Science Mechanical Engineering/ Solar & Renewable energy

University of Technology, Baghdad (Iraq)

General

- Advanced Mathematics, Advanced Heat transfer, Solar Energy Physics, Advanced Solar Energy, Solar Energy System Design.

Occupational

- A Study of Solar Energy Storage System Through Phase Changing

16/01/2013–06/01/2016

PhD in of Science Mechanical Engineering/ Solar & Renewable energy

University Politehnica of Bucharest, Bucharest (Romania)

Title of the thesis

- Experimental and Theoretical Investigation Concerning the Influence of Operation Regime and Weather Stability on the Performance of Air and Hybrid Solar Collectors

PhD. Scientific Advisor

- Prof. Dr. Eng. Viorel BADESCU

PERSONAL SKILLS

Mother tongue(s) Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills

Editorial board member in Journals

- American Journal of Energy Engineering, ISSN Online: 2329-163X
- SCIREA Journal of Energy

Reviewing in Journals

- Solar Energy, ISSN: 0038-092X

[Related document\(s\): Certificate.pdf](#)

Organisational / managerial skills

2000- 2003

AL Rasheed College of Engineering and Sciences /University of Technology Baghdad- Iraq

- Supervision of control laboratory.
- Supervision of computer laboratory.
- Supervision of theory machine laboratory.

2003- 2004

Mechanical Engineering Department /University of Technology Baghdad- Iraq

- Supervision of control laboratory.
- Supervision of computer laboratory.
- Supervision of theory machine laboratory.

2004- 2005

Technical College of Najaf/ Foundation of Technical Education Iraq.

- Engineer in automobiles workshop (Automobiles Engineering Department).
- Supervision of system workshop (Automobiles Engineering Department).

2007- 2010

Technical College of Najaf/ Foundation of Technical Education Iraq

- Lecturer in Automobiles Engineering Department.
- Planer's managements for 4th students research of automobiles department.

- Supervision of automobiles workshop.
- Director of University performance

2013- 2017

Engineering Technical College of Najaf- Iraq/ Al-Furat Al-Awsat Technical University.

- Assistant Professor in Automobiles Engineering Department.
- Planer's managements for 4th students research of automobiles department.

2017- Present

Engineering Technical College of Najaf- Iraq/ Al-Furat Al-Awsat Technical University.

- Head of the Department of Technical Engineering Laser and Electro- Optics.
- Assistant Professor in Mechanical department.
- Planer's managements for 4th students research of Mechanical department.

Job-related skills

- Team work: I have worked in various types of teams from research teams to Center of Renewable & Alternative Energy Research.
- Good command of Quality Control Processes.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Basic user	Independent user		Basic user

Digital skills - Self-assessment grid

- good command of office suite (word processor, spreadsheet, presentation software).
- good command of Adobe illustrator.
- good command of Auto CAD.
- good command of MATLAB Program.
- good command or COMSOL Multiphysics Program.

Driving licence

B

ADDITIONAL INFORMATION

Publications

- Journal Papers

- Ali Mohammed Hayder, Azwan Bin Sapit, Qahtan Adnan Abed. **Review of solar thermal storage techniques**. ARPN Journal of Engineering and Applied Sciences. ISSN 1819- 6608, vol 12, No. 21, November 2017.
- Qahtan A. Abed, Viorel Badescu, Iuliana Soriga. **Performance of a hybrid solar collector system indays with stable and less stable radiative regime**. International Journal of Sustainable Engineering, DOI: 10.1080/19397038.2017.1333542 (2017) 1-14.
- Viorel Badescu, Qahtan A. Abed, Adrian Ciocănea, Iuliana Soriga. **The stability of the radiative regime does influence the daily performance of solar air heaters**. Renewable Energy 107 (2017) 403-416.
- Qahtan A. Abed, Adrian Ciocănea, Iuliana Soriga, Dorin L. Buretea, Viorel Badescu. **Dynamic thermal performance analysis of two solar air collectors with and without porous media**.

Renew. Energy Environ. Sustain. 1, No 24, (2016).

- Qahtan A. Abed, Viorel Badescu, Adrian Ciocănea, Iuliana Soriga and Dorin Bureștea. **Models for New Corrugated and Porous Solar Air Collectors under Transient Operation**. *J. Non-Equilib. Thermodyn.* 42(1), pp. 79-97. Retrieved 1 Jul. 2017, from doi:10.1515/jnet-2016-0013.
- Qahtan A. Abed, Viorel Badescu, Iuliana Soriga. **Hybrid solar collector for water and air heating: effects of storage tank volume and air channel shape on efficiency**. U.P.B. Sci. Bull., Series D, Vol. 77, Iss. 3, 2015; pp. 29- 40.
- Qahtan A. Abed. **Experimental study of a solar concatenated parabolic dish system generating fresh water**. Al-Taqani, Refereed scientific Journal. Foundation of technical education. Vol. 25; 2012, No.3. pp.7 -26.
- Selah M. Salih, Qahtan A. Abed, Dhafer M. AL-Shamkhi. **Numerical analysis of vapor flow in a horizontal cylindrical heat pipe**. Al-Qadisiya Journal for engineering sciences, Vol. 4; 2011, No.3, pp. 233-

- Conference Papers

- Dhafer Manea Hachim, Qahtan A. Abed. **Thermal analysis of light weight wall made from sandwich panels in the aspect of thermal insulation design for sustainable built environment regime**. 6th International conference on Thermal Equipment, Renewable Energy And Rural Development. Organizers: University Politehnica of Bucharest, TE-RE-RD 2017.
- Qahtan A. Abed. **Performance study of solar air heater with corrugated absorber**, F.T.E Scientific International Conference, Najaf Technical Collage 12-14/4/2010.
- Qahtan A. Abed, Viorel Badescu, Iuliana Soriga. **The performance of hybrid solar collector for water and air heating**. EPI-60, International conference on Equipment Process Industrial, 16 Mai- 2014; pp.259- 264, Bucharest- Romania.
- Qahtan A. Abed, Viorel Badescu, Iuliana Soriga. **Performance analysis of a hybrid water and air solar collector with rectangular fins**. 3rd International conference on Thermal Equipment, Renewable Energy And Rural Development. Organizers: University Politehnica of Bucharest. Faculty of Mechanical Engineering and Mechatronics - Faculty of Biotechnical Systems Engineering. Editors: Prof.Dr.Eng. M. Lucian and Assoc. Prof.Dr.Eng. N. Gabriel-Paul. TE-RE-RD 12-14 June 2014; pp. 137-140, Mamaia- Romania
- Qahtan A. Abed, Viorel Badescu, Iuliana Soriga. **Evaluation of various hybrid solar collector configurations for water and air heating**. 4th International conference on Sustainable Energy in the built environment- steps towards nZEB. Editor: Ion Visa, 6- 8 November 2014; pp. 325-334, Brasov- Romania.
- Qahtan A. Abed, Ciocănea Adrian, Viorel Badescu. **An experimental comparison between corrugated and porous plates of solar air heaters at various flow rates**. 4th International conference on Thermal Equipment, Renewable Energy and Rural Development. Organizers: University Politehnica of Bucharest. Faculty of Mechanical Engineering and Mechatronics - Faculty of Biotechnical Systems Engineering.
- Dhafer Manea H. Al-Shamkhee, Qahtan A. Abed. **Theoretical study the effect of insulation of water basin on the productivity of tubular solar still**. 5th International conference on Thermal Equipment, Renewable Energy And Rural Development. Organizers: University Politehnica of Bucharest (2016).
- Qahtan A. Abed, Adrian Ciocănea, Iuliana Soriga. **Dynamic thermal performance analysis of two solar air collectors with and without porous media**. 14 International conference on World Renewable Energy Congress 14- WREC XIV, 8 - 12 June 2015; Bucharest- Romania. Journal of Physics: Conference Series, IOP Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK.

- Book Chapters

- Qahtan A. Abed and Viorel B. **Some Solar Energy Technologies and Applications**. Chapter in: Energy science and technology, Volume 5: Solar Engineering-I (Applications). Studium Press LLC, USA (2015) ISBN: 978-1-626990-61-6.

- Communication

- Qahtan A. Abed, Viorel Badescu. **Solar Thermal Collectors and Applications**. SPERIN conference. politehnica university of bucharest 26 october 2013.
- Qahtan A. Abed, Viorel Badescu. **Modelling the performance of a hybrid solar collector for water and air heating**. Academiei Române – Bucharest, 20 June 2014.
- Qahtan A. Abed, Viorel Badescu. **Different solar thermal collectors operating in transitory regime**. Romanian- Iraqi Confluences in Technical Sciences. Academiei Române – Bucharest, 5 May 2015.
- Qahtan A. Abed. **Improve the performance of solar thermal collectors**. Technical College, Najaf (2016).

- Submitted to Conference

- Dhafer Manea Hachim, Qahtan A. Abed. **Enhancement the productivity of tubular solar still by using the phase change material (PCM)**.

Supervision of Postgraduate
Studies

Ph D. Ali Mohammed Hayder. **Experimental and Numerical Study of Solar Air Collector Absorber Integrated with Phase Change Material PCM**. Universiti Tun Hussein Onn Malaysia 2016.

ANNEXES

- Certificate.pdf

Certificate.pdf 

In cooperation with
ISES (INTERNATIONAL SOLAR ENERGY SOCIETY)



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Certificate of Reviewing

awarded May, 2016 to

QAHTAN ALFTLAWE

In recognition of the review made for the journal

The Editors of SOLAR ENERGY
Elsevier, Amsterdam, The Netherlands

