

# Curriculum Vitae

## Biography



*I received the B.Sc. degree in Production and Metallurgical Engineering Department from the University of Technology-Iraq in 2003, M.Sc. degree in Metallurgical Engineering from the University of Technology-Iraq in 2012. Since 2012, I have been working with the University of Anbar-Iraq, where I am a lecturer in mechanical engineering department and I am a researcher in Renewable Energy Research Center (RERC). I participated in UMPEDAC Training Course in RENEWABLE ENERGY on 10<sup>th</sup> – 21<sup>st</sup> December 2012 at University of Malaya (UM)-Malaysia. In addition, I completed the course “RE100: Introduction to Renewable Energy” on December 2014 at Solar Energy International (SEI). My research interests include statistical analysis and modeling, Semi-Solid processing, metallic foam, microstructural characterization, PV efficiency, Solar Air Heaters (SAHs), and renewable energy resources. I published more than six papers in local and international journals.*

## Personal Data

Name: [Osama Ibrahim Abd](#)

Date of birth: 1982

Marital Status: Married and I have three children

Address: College of Engineering, University of Anbar, Iraq.

Nationality: Iraqi

Language: Arabic, English.

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## Academic Qualifications

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- 1) B.Sc. **(1999-2003)** In Production and Metallurgical Engineering (Department of Production and Metallurgical Engineering), University of Technology: Baghdad, Baghdad, IQ. (**Ranked 1<sup>st</sup> out of 2002-2003 batch**), (**Grade: Good; 74.4%**).
- 2) M.Sc. **(2009-2012)** In Metallurgical Engineering (Department of Production and Metallurgical Engineering), University of Technology: Baghdad, Baghdad, IQ. (**Grade: Very Good; 81.84%**).

## Graduation Project and Thesis

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- B.Sc. Project (**June 2003**): (*Study of Wear properties of Al-SiC composites*).
- M.Sc. Thesis (**Dec. 2011**): (*Slope Plate Casting of Hypereutectic Al-Si Alloy*).

## Current Membership in Professional Societies:

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- Member, Iraqi Society of Engineers.
- Member, Iraqi Society of University Teachers.
- Consultant at the Consulting Engineering Bureau/Anbar University.
- Member of the administration committee of Renewable Energy Research Center, University of Anbar: Ramadi, Al Anbar, IQ.
- Member of the committees for examination and emphasis in Renewable Energy Research Center, University of Anbar: Ramadi, Al Anbar, IQ.

## Experience

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### **A- In College of Engineering, University of Anbar: Ramadi, Al Anbar, IQ.**

- Trainer in Engineering Workshops.
- Assist. Lecturer in Department of Mechanical Engineering, for Engineering Drawing, and labs of Metallurgy and CAD.
- Lecturer in Department of Mechanical Engineering, for Engineering Drawing (2<sup>nd</sup> semester 2017/2018) and Mechanical Drawing 1<sup>st</sup> semester 2018/2019).
- Supervision on graduation Project for Mechanical Engineering students.
- Supervision on graduation Project (study the performance of Hydrogen cell) at Mechanical Engineering department.

- Directed and interactive discussion sessions laboratory for undergraduate Metallurgy and CAD Laboratories.
- Mentored undergraduate students in laboratory research methods.
- Graded laboratory reports and exams.
- Employee and Responsible on office of scientific affairs and higher studies in College of Engineering.
- Quality committee in Department of Mechanical Engineering.

**B- In Renewable Energy Research Center, University of Anbar: Ramadi, Al Anbar, IQ.**

- Researcher in Renewable Energy Research Center
- Manager of Department of Electrical Power Systems.
- Member of the administration committee.
- Supervision, as one of project team on graduation Project for a mechanical engineering student titled "Experimental investigation of Solar Air Heaters consisting of Aluminum cans".
- Performing all lab experiments related with evaluating of pollution impact on performance of PV array.
- Performing lab experiments related with Impressed Current Cathodic Protection (ICCP) of buried steel structure.
- Participating in Workshop (2013) (In Arabic): ***Use of renewable energy in Iraq from the point of view of young people*** with Tammuz Organization for social Development, Iraq.

## **Technical Skills**

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- Microsoft Office (*Word, Excel and Power point*).
- AutoCAD.
- Statistical Analysis, ANOVA and Modelling.
- Design of Experiments and Optimization.
- Minitab and Design Expert Software.
- Destructive Inspection.
- Implementation of Solar Air Heaters.
- Implementation of Cooling and spraying system to enhance PV array performance.

## Training Courses and Certificates

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### *Training Courses outside of Iraq:*

- UMPEDAC Training Course (**2012**): **Renewable Energy** on 10<sup>th</sup>-21<sup>st</sup> December 2012 at University of Malaya Kuala Lumpur, Malaysia.
- UNDP Workshop (**2013**) **Road Map for Energy Efficiency in Iraq** on 2-5 December 2013, Amman, Jordan.
- Online Training course (**2014**): **RE100: Introduction to Renewable Energy** on December 2014 at Solar Energy International (SEI).

### *Training Courses inside of Iraq:*

- Training Course (**2009**): **Modern Applications in Destructive Inspections**, University of Technology: Baghdad, Baghdad, IQ.
- **Computer Rehabilitation Program (2010)** at Computer of College, University of Anbar: Ramadi, Al Anbar, IQ.
- **Educational qualification course (2012)** at Teaching Methods and Continuous Education Center, University of Anbar: Ramadi, Al Anbar, IQ.
- **Corrections in Arabic language (2018)** at Teaching Methods and Continuous Education Center, University of Anbar: Ramadi, Al Anbar, IQ.
- **Computer Rehabilitation Program (2018)** at Center of Computer, University of Anbar: Ramadi, Al Anbar, IQ.

## Publications

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- 1) **Dr. Nawal Ezat, Osama Ibrahim**, "Microstructure Investigation of Hypereutectic Al-Si Alloy Using Slope Plate Casting", Eng. & Tech. Journal, Vol.31, No.3, 2013.
- 2) **Rajab Mohammed Hussein, Osama Ibrahim Abd**, "Influence of Al and Ti Additions on Microstructure and Mechanical Properties of Lead Brass Alloys", Indian Journal of Materials Science, Volume 2014, Article ID 909506, Hindawi Publishing Corporation , <http://dx.doi.org/10.1155/2014/909506>.

- 3) **Younis Khalaf, Osama Ibraheem, Mustafa Adil, Salih Mohammed, Mohammed Qasim, Kaleid waleed**, "Maximum Power Point Evaluation Of Photovoltaic Modules Under Shading Effect" *European Scientific Journal* March 2014, edition vol.10, No.9, ISSN: 1857 - 7881 (Print) e - ISSN 1857-7431.
- 4) **Salih Mohammed Salih, Osama Ibrahim Abd, Kaleid Waleed Abid** "Performance enhancement of PV array based on waters praying technique" *International Journal of Sustainable and Green Energy* 2015; 4(16): 8-13, Published online November 11, 2014, <http://doi:10.11648/j.ijrse.s.2015040301.12>.
- 5) **Osama Ibrahim Abd**, "Experimental analysis on metallic foams-a response surface methodology approach", *International Journal of Engineering & Technology*, 4 (1) (2015) 149-160, ©Science Publishing Corporation <http://doi:10.14419/ijet.v4i1.403>.
- 6) **Osama Ibrahim Abd**, "Taguchi Design of Manufacturing Condition for Semi-Solid Al-Si Alloy fabricated by Cooling Slope Plate method", *Elixir Mech. Engg.* 81 (2015) 31714-31717, [http://www.elixirpublishers.com/#abstract\\_3](http://www.elixirpublishers.com/#abstract_3)
- 7) **Zain alabdeen Hussein Obaid, Osama Ibrahim Abd**, "Evaluating and Modeling of Parabolic Solar Cooker by RSM", *kirkuk University Journal-Scientific Studies*, kirkuk University Journal-Scientific Studies 13 (3), pp. 21, 2018.
- 8) **Research article accepted for publication in local journal and more than four research articles sent for publication in international journals.**

## Acknowledgments

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- Acknowledgement of the presidency of the University of Anbar, Iraq.
- Acknowledgment from the Dean of Engineering College University of Anbar, Iraq.
- Acknowledgment from the Director of Renewable Energy Research Center University of Anbar, Iraq.

## Websites

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- 2) [https://www.linkedin.com/profile/public-profile-settings?trk=prof-edit-edit-public\\_profile](https://www.linkedin.com/profile/public-profile-settings?trk=prof-edit-edit-public_profile)
- 3) <https://al-anbar.academia.edu/OsamaAljenabi>
- 4) <http://scholar.google.com/citations?user=yk6qHEQAAAAJ&hl=en>
- 5) <http://www.slideshare.net/ssuserd9ed21>