

*Curriculum Vitae*

**Ghada Abbas Sadiq**

*Mustansiriyah University – College of Engineering*

*Mobile:*

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**PERSONAL SUMMARY:**

- Ghada Abbas Sadiq,
- Mechanical Engineering Department,
- PhD in Mechanical Engineering,
- Research Interests: Heat Transfer, IC Engines, Hybrid System, and Wankel Expander & Compressor.

**EDUCATION:**

- Ph.D. in Mechanical Engineering / University of Birmingham / Mechanical Engineering Department, United Kingdom - Birmingham (2018).
- M.Sc. in Mechanical Engineering / Thermal Power Engineering, Baghdad University / College of Engineering / Mechanical Engineering Department, Iraq - Baghdad (2009).
- B.Sc. in Mechanical Engineering, University of Technology, Machines & Equipment Engineering Department, Baghdad (1993).

**ACADEMIC HONORS AND AWARDS:**

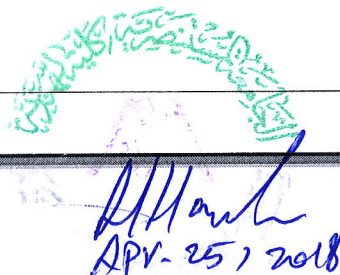
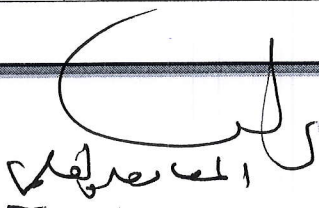
- Certification of Appreciation of the International Conference for Students on Applied Engineering 2016 (ICSAE/IEEE 2016).

**ACADEMIC /TEACHING EXPERIENCE:**

- I have an academic experience built by giving lectures at Al-Mustansiriyah University such as Mechanical Drawing for the 2<sup>nd</sup> year undergraduate students in Mechanical Engineering, Auto Cad for the 4<sup>th</sup> year undergraduate students and supervision for projects of final year.
- Teaching support for various thermofluid modules through demonstration of various experimental laboratories in the University of Birmingham (the university where I have had my PhD degree).
- Contributed to the supervision of final year project for Master of Engineering MEng in the University of Birmingham.

**COURSES TAUGHT:**

| Undergraduate   | Graduate |
|---|----------|
| <ul style="list-style-type: none"><li>• Mechanical Drawing</li><li>• Engineering Drawing</li><li>• Descriptive Geometry</li><li>• Auto Cad</li><li>• projects of final year</li></ul> |          |



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## PROFESSIONAL AFFILIATIONS:

- Member of the Iraqi Engineers Union (IEU).

## PUBLICATIONS:

- Prof Dr. Ihsan Y. Hussain, Dr. Akeel Abdullah Mohammed, Ghada A. Sadiq ; " Developing Laminar Mixed Convection Heat Transfer Through Vertical Concentric Annuli With Adiabatic Inner Cylinder." A Scientific Refereed Journal Published by College of Engineering University of Baghdad, Vol. 17, No. 5, (2011), p.p. 1269 – 1288.
- G. A. Sadiq, G. Tozer, R. Al-Dadah, and S. Mahmoud, "CFD simulations of compressed air two stage rotary Wankel expander – Parametric analysis," Energy Convers. Management, vol. 142, pp. 42–52, 2017.

## Conference Papers:

- G. A. Sadiq, G. M. Tozer, S. M. Mahmoud, and R. K. Al-Dadah, "Numerical investigation of the two stage Wankel expander performance." ICSAE/IEEE, International Conference 2016; pp. 164- 169.
- Ghada A. Sadiq, Gavin M. Tozer, Priv Dodhia, Saad M. Mahmoud, Raya K. Al-Dadah "EFFECT OF INLET / OUTLET PORTS ON ROTARY WANKEL EXPANDER PERFORMANCE", Heat Powered Cycles Conference / Nottingham, June 2016.

## PROFESSIONAL DEVELOPMENT

- Internet and Computing Core Certification IC<sup>3</sup>.
- English & IELTS [Academic] Preparation certificate from BBSI, United Kingdom, Bournemouth.
- English for International Student Unit / EAP1 Preessional Course, United Kingdom, Birmingham.
- Certificate of participation for presenting the research at the 5<sup>th</sup> Mechanical Engineering Symposium, United Kingdom, Birmingham.
- More than 30 training course through my PhD study in the University of Birmingham:
- Multiphase Simulation with COMSOL.
- Research Skill for EPS Research Student.
- Multiphase Modeling Workshop simulation technology with COMSOL.
- ANSYS, SIMCafe.org.
- SOLIDWORKS Motion Simulation.
- Fire Safety Lecture.
- ANSYS CFD Training part 1 & 2 for engineering student.
- EISU 2015 PhD Thesis writing for science.
- ANSYS Academic FEA teaching material.
- ANSYS CFD for Engineering Students.
- ANSYS Internal Combustion Engine Design and Optimization.



- ANSYS-Focus on faster mechanical simulation.
- Assessing engine knock conditions using ANSYS Chemkine's spark ignited engine model.
- Introduction to research data management.
- Note taking.
- The link between SOLIDWORKS Flow Simulation and SOLIDWORKS Simulation.
- 10 things you need to know about Sketches in SOLIDWORKS.
- 10 things you need to know about Assembly mates in SOLIDWORKS.
- ILT001 Introduction to Learning & Teaching in HE for Postgraduates.
- ILT002 Laboratory-based Demonstrating for Postgraduates.
- MATLAB Essentials.
- Thesis presentation and reference management.
- Getting published in science.
- Structuring your thesis.
- Preparing for your viva.
- Career planning in the science.