

# Bassem Nashaat Zakher



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**LinkedIn:** <https://www.linkedin.com/in/bassem-zakher>

**Nationality:** Egyptian

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## Summary

- Enthusiastic and dedicated Assistant Professor and Lecturer with +14 years of Experience as an engineering teacher. Specialist in teaching courses in engineering drawing, descriptive geometry, thermodynamics, and fluid mechanics. Providing the summer training, student activity, and social developing sections.

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## Skills

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|------------------------|------------------------------|
| • Communication Skills | • Scientific Research Skills |
| • Critical Thinking    | • Teamwork                   |
| • Organization Skills  | • Superior Writing Skills    |
| • Leadership           | • Public Speaking            |
| • Mentoring & Training | • MS Office (Excellent)      |

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## Teaching Experience

- **Assistant Professor**, (Full time), Borg Al Arab Technological University BATU, Faculty of Industry and Energy technology . **(November, 2022-Present)**
- **Lecturer and Trainer**, Engineers Syndicate in collaboration with ELM Academy **(May, 2022- Present)**  
Diploma in Automotive Maintenance Technician
- **Assistant Professor**, (Part time), The Technical and Vocational Institute Arab Academy for Science and Technology, Alexandria. **(Sep, 2020- June, 2021)**
- **Assistant Professor**, (Part time), The Higher Institute of Engineering and Technology in Borg El Arab Alexandria, Mechanical Engineering Department **(Sep, 2020- Jan, 2023)**
- **Pharos University, Faculty of Engineering, Mechanical department, Assistant Professor**  
Responsible for teaching, and academic advisor for 30 students, Provided the summer training, student activity, and the social developing section, **(Sep, 2017- Sep, 2020)**
- **Assistant lecturer**, The Collage of Maritime Transport & Technology (CMTT), Arab Academy for Science, Technology and Maritime Transport (AASTMT) Teaching courses of fluid mechanics **(2010- 2016)**
- **Assistant lecturer**, The Arab Academy for Science, Technology and Maritime Transport (AAS), Faculty of Engineering at the Mechanical department, teaching courses of engineering drawing, descriptive geometry, thermodynamics and fluid mechanics. **(2007- 2010)**

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## **Administrative Experience**

**Consultant Engineer (Planning and Quality Control)**

**(2018- Present)**

**Queen motors service center for Skoda agency**

**Maintenance Manager,**

**(2008- 2014)**

- Led a group of 30 maintenance engineers and technicians to achieve the company's goals and the optimum utilization of the available facilities.
  - Prepared quotations for automotive accidents.
  - Handled customers' complaints.
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## **Professional Development**

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|---|-------------|
| • Project Manager Professional (PMP).               | <b>2018</b> |
| • Auto Cad  | <b>2018</b> |
| • Comsol simulation program.                        | <b>2012</b> |
| • Certified VAG 5051, 1552 Diagnoses Administrator. | <b>2010</b> |
| • Gambit (GUI)                                      | <b>2000</b> |
| • CFD code (Ansys and Fluent)                       | <b>2000</b> |
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## **Courses Taught to Students**

**(2017- Present)**

- **Fluid Mechanics.**
  - **Fluid Mechanics for Electrical Engineering students.**
  - **Control and safety.**
  - **Thermo fluids.**
  - **Measurements and sensors.**
  - **Power Generation by fluids**
  - **Automatic Control.**
  - **Internal combustion engines.**
  - **Principles of Mechanical Engineering**
  - **Electrical power stations.**
  - **Graduation project.**
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## Education

- **PhD, Dynamic Performance of a Car Suspension System In The Presence Of Fluid-Structure Interaction**, Alexandria University, Faculty of Engineering, Major: Mechanical Engineering **2017**
  - **M.SC in Aerodynamic Design, under the title: Aerodynamic Design of Road Vehicles using Computational Fluid Dynamics**, The Arab Academy for Science and Technology, Major: Mechanical Engineering **2006**
  - **B.SC in Power Mechanical Engineering**, Alexandria University **1998**
  - **Graduation Project:** The Design of Hydrogen Engine (Very Good)
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## Publications

- COMPARISON BETWEEN EXPERIMENTAL LIFE ROAD SIMULATION and COMPUTATIONAL FLUID DYNAMICS and FLUID STRUCTURE INTERACTION FOR SEDAN CARS. ISSN: 2811-3969, CFD LETTERS 14, ISSUE 2 (**2022**) 81-97.
  - The EFFECT of CHANGING the SLANT ANGLE of AHMED'S CAR MODEL ON DRAG COEFFICIENT FOR DIFFERENT CRUISE SPEEDS. JOURNAL of RECENT TRENDS IN MECHANICS" IN VOLUME 4.
  - The EFFECT of VORTEX GENERATORS ON AERODYNAMICS FOR SEDAN CARS ISSN:2180-1363, CFD LETTERS 11, ISSUE 6 (**Jan, 2019**).
  - The ABILITY of FORECASTING FLAPPING FREQUENCY of FLEXIBLE FILAMENT BY ARTIFICIAL NEURAL NETWORK. ALEXANDRIA ENGINEERING JOURNAL.
  - SIMULATION of NEW DESIGN of STATIONARY CONCRETE PUMP. INTERNATIONAL JOURNAL of ADVANCED SCIENTIFIC and TECHNICAL RESEARCH ISSN ISSUE 9 VOLUME 2 (**March- April, 2019**).
  - COMPUTATIONAL FLUID DYNAMIC RESULTS FROM AHMED'S CAR MODEL USING COMSOL. INTERNATIONAL JOURNAL of ADVANCED SCIENTIFIC and TECHNICAL RESEARCH ISSN 2249-9954, IMPACT FACTOR: 3.54(2015), Edition: ISSUE 6, Vol. 6 (**Nov, 2016-Dec, 2016**).
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## Conferences

- TOT - Electrotechnical Modeling & Design Workshop **23, Feb 2020**
  - Elsevier Research & Health Solutions in collaboration with EKB, at Pharos University in Alexandria **19, Dec 2019**
  - The Second International Conference On New Trends for Sustainable Energy "ICNTSE 2018"Energy and Sustainable Development" at Faculty of Engineering Pharos University **5,6 Nov 2018**
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## Languages

- **Arabic: Native**
- **English: Fluent (Written and Spoken), IELTS**