

Mohamed Sakr

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Positions

- 22/9/2025 Lecturer (part time) at the Higher Institute of Engineering and Technology - King Mariout, Alexandria, Egypt.
Teaching course in thermodynamics.
- 29/10/2024: 25/4/2025 Research visitor at the Department of Aerospace Engineering, Khalifa University, UAE
Duties: CFD simulations
- 30/9/2023 : 31/8/2024 Lecturer (part time) at the Higher Institute of Engineering and Technology - King Mariout, Alexandria, Egypt.
Duties: Taught courses in production technology and thermodynamics.
- 17/11/2021 : 31/1/2023 Post-doctoral research fellow at the University of Minho, Portugal

EDUCATION

- 2020 PhD
Ulster University, UK
PhD Thesis: Modelling and Large Eddy Simulation of Large scale Hydrogen Air Deflagrations and Deflagration to Detonation Transition
- 2013 MSc in Computational Engineering
University of Erlangen–Nürnberg, Germany
Master Thesis: Aero-acoustics computation of Tandem Cylinder
- 2008 BSc in Aerospace Engineering
Cairo University, Egypt

Online Training Course

Linear Modelling (FEM) - Tu-Delft, The Netherlands
2/9/2024 : 23/10/2024 (not completed)

Engineering Skills

CFD, fluid mechanics, combustion, programming

Given Presentation

DDT simulation result at technical summer school in Greece 6/2015, Ulster University PhD students conference 3/2016, and H2FC researcher conference 12/2016.

Programming and CFD related tools previously used

C++, ANSYS-Fluent, Star-CCM+, OpenFOAM, Actran, Cantera, Salome