

Dr. Eng. Ibrahim Shahin

Ph. D - Mechanical Power Engineering Dept.
Faculty of Engineering Shoubra, Benha University



Personal Data :-

- Gender: Male
- Marital status: Married
- Nationality: Egyptian
- Birth Date: 6/1/1981
- Military Status: Free
- Place of Birth: Egypt
- Current place of residence: Cairo
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Present Occupation

- :-
- **Lecturer** Mechanical Power Engineering Dept.
Faculty of Engineering Shoubra, Benha University.

Academic Work Experience & Scientific Research :-

- **Doctor of Philosophy in Mechanical Power Engineering,**
Faculty of Engineering Shoubra- Benha University-2011.
"Performance and flow field analysis for a centrifugal turbo machine with and without radial vaned diffuser"
- **Master of Science in Mechanical -Power Engineering,**
Faculty of Engineering Shoubra- Benha University-2007.
"Large Eddy Simulation for Turbulent flow through a diffusing S-Duct "
- **Bachelor degree in Mechanical -Power Engineering,**
Faculty of Engineering Shoubra- Benha University-2003.

Teaching Experience :-

I taught the following courses for Under graduat ' from 2005 to 2012':-

- Turbo Machines
- Hydraulic Machines
- Fluid Mechanics – Fluid Dynamics
- Fluid Power
- Heat Transfer
- Trainer for CFD course "FLUENT Software"
- Engineering Drawing.
- Axial and Centrifugal compressors 'Post graduat 2012'

Languages :-

Fluent in both languages English and Arabic written and spoken.

Computer Skills :-

- Windows operating system.
- Microsoft office.
- AUTOCAD Drawing.
- Ansys-Fluent CFD Computational fluid dynamic.

Training Experience

:-

I taught the following training courses for **Kuwait Oil Company KOC** field engineers :-

- Pumps maintenance and troubleshooting.
- Gas compressors operation and maintenance
- Oil Field Water Treatment Course
- Maintaining pumps course
- Protection relay maintenance application & testing.
- Failure Analysis Methodologies for Mechanical Engineers
- Gas Lift Management
- Purging procedures in Booster Stations
- Construction Management
- Valves(Selection, Maintenance and repair)

Field Work Experience:-

- Working as a site Engineer in the field of oil and gas pipe lines “HHD Horizontal directional drilling” in FLOWTEX Egypt 2003 to 2005.
- Technical support for “PACO Pumps” In Egypt from 2007 to 2009.
- Technical support for “KSP Pumps” In Egypt from 2009 to 2011.

CFD Skills :-

Good experience with Ansys-fluent CFD package in simulating:-

- Fluid flow problems
- Heat Transfer, Multi phase flow models and Combustion models
- Turbo machines “ Unsteady Rotor- Stator Interaction RSI”
- Combustion

Good experience with Design, Drawing and Grid generation software:-

- Gambit Software
- ICEM CFD
- Blade generator
- Turbo-Grid
- CF Turbo “ Centrifugal turbo machine design software”

Consultation projects:-

- CFD simulation for a turbo-prop gas turbine engine components “compressor, combustor, turbine and free turbine”
- Improving the performance for multistage centrifugal pumps for IMPOAS pump company, using FLUENT for predict pump performance curve
- Using FLUENT software for predict the cause of erosion Problem in a T spool, KARONE Petroleum Company.
- CFD analysis for medium volt electric cable surface temperature in an Underground duct bank raceway for Suez Steel factory.
- Using FLUENT software for predicting and enhancing air and CO2 distribution in underground car park, SHAKER consultant.