**Dr. Mohamed Fekry Farah El-Dosoky**

**PERSONAL DETAILS**

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| --- | --- | --- | --- | --- | --- |
| Surname | Mahmmed | | | | |
| Other names | Fekry Farah El-Dosoky | | | | |
| Title | Prof  **Dr.** **■** Mr.  Miss  Ms  Other Please specify | | | | |
| Gender | **Male** **■** Female  | | | | |
| Address | Department of Mechanical Engineering  Faculty of Engineering, Assiut University, Assiut 271516, Egypt | | | | |
|  | | | | Post code | 271516 |
| Telephone numbers | +20-0161764160 | | | Evening | +20-0161764160 |
| Mobile | +20-0161764160 | | | Email | M\_fekry@yahoo.com |
| Date of birth | Day  28 | Month  2 | Year  1970 | Place of birth | Qena – Egypt |

**EDUCATION**

|  |  |  |
| --- | --- | --- |
| School/college/University/other | Degree obtained | Dates (from-to) |
| Department of Engineering / University of Leicester, UK | PhD | January 2005-April 2009 |
| Assiut University, EGYPT | M. Sc. | September 1993-June 2000 |
| Assiut University, EGYPT | B. Sc. | September 1987- May 1992 |

**TRAINING**

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| --- | --- | --- |
| Training attended/ Technical skills acquired | Place | Dates (from-to) |
| CFD grid generation of a one and half shrouded turbine stage using Alstom grid generation Code. | Alstom Power generation  Rugby-UK | January 2008 |
| Developing a 3D time accurate CFD code | Faculty of Science - University of Leicester, UK | January 2005- April 2009 |
| CFD simulations of the internal and external flow. | Faculty of Science - University of Leicester, UK | January 2005- April 2009 |

**EMPLOYMENT HISTORY**

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| --- | --- | --- |
| Employer | Position | Dates (from-to) |
| Assistant Professor | Mechanical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt. | July 2009 – Present |
| Research Assistant | Department of Engineering / University of Leicester, UK | January 2005 - April 2009 |
| Assistant Lecturer | Mechanical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt. | July 2000 - December 2004 |
| Demonstrator | Mechanical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt. | June 1993 - June 2000 |

**MEMEBERSHIP OF PROFESSIONAL ASSOCIATIONS**

|  |  |  |
| --- | --- | --- |
| Professional body | Level of membership | Year of award |
| Education evaluation team, Faculty of Engineering, Assiut University, Egypt. | Member | 2002-2004 |
| The consultancy office of the Faculty of Engineering, Assiut University, Assiut, Egypt. | Consultant | 2010 - Present |
| Industrial Technology Transfer Unit (ITTU), Assiut University, Assiut, Egypt. | Consultant | 2010 - Present |
| Egyptian Engineering syndicate. | Member | 1993 - Present |

**FIELDS of INTERST**

- Unsteady compressible and incompressible flows

- Time accurate numerical models

- Grid generation using Multi-block multi-grid techniques.

- Using advanced turbulence models in addition to the detached eddy simulation (DES) technique.

- Hydraulic and turbo-machines performance.

- The renewable Energy (Wind turbine and solar collectors).

- The flow separation and the accompanied vortices in both external and internal flows.

**PUBLICATIONS**

1. **El-Dosoky, M. F.**, Abdel-Hafez, O. M. E., Abdelgany, M. M., Ayyad, A. K. “An Experimental Study on the Improvement of the Suction Performance of a Centrifugal Pump Due to Inducer Installation“, MEDZINARODNA Konferencia O VODNEJ ENERGETIKE, pp. 23-35, 2001 October 9-11 Podbanske, Slovenska Republika.
2. **El-Dosoky, M. F.**, Abdel-Hafez, O. M. E., Abdelgany, M. M., Ayyad, A. K. “An Experimental Study of the Effect of Inducer Geometrical Parameters on the Performance of a Centrifugal Pump“, MEDZINARODNA Konferencia O VODNEJ ENERGETIKE, pp. 37-49, 2001 October 9-11 Podbanske, Slovenska Republika.
3. **El-Dosoky, M. F.**, Abdel-Hafez, O. M. E., Abdelgany, M. M., Ayyad, A. K. “Analytical Investigation of Oscillations Associated with Cavitating Inducers“, MEDZINARODNA Konferencia O VODNEJ ENERGETIKE, pp. 51-65, 2001 October 9- 11 Podbanske, Slovenska Republika.
4. **El-Dosoky, M.F.**, Rona, A., Gostelow, J.P.”An analytical model for over-shroud leakage losses in a shrouded turbine stage”, ASME Paper GT2007-27786, ASME Turbo-Expo 2007, Montreal, Canada, 14-17 May 2007.
5. W. M. Salman, M.S. Abdelsalam, **M.F. F. El-Dosoky**, and M. Abdelgawad, Effect of Electrical Conductivity and Permittivity of Liquids and Frequency of The Applied Voltage On Droplets Actuation On Digital Microfluidic Devices, accepted in MicroTAS 2014, San Antonio, USA, 26-31 October, 2014.
6. Omar A.Alanwar, Mahmoud A.Ameen, **Mohammed F.F.El-Dosoky**, Ahmed M.Diaa, "Secondary Flow Control on Axial Flow Compressor Cascade Using Vortex Generators, Proceedings of the ASME 2014 International Mechanical Engineering Congress & Exposition IMECE2014 November 14-20, 2014, Montreal, Quebec, Canada
7. Walid J. Al-Nahari \*, **Mohammed F. F. El-Dosoky**, Mohammed M. Abdelghany, and Hamdy M. Sahfey, "DEVELOPMENT, VERIFICATION AND VALIDATION OF AN IN-HOUSE CFD CODE FOR WEAKLY COMPRESSIBLE FLOW", Journal of Engineering Sciences Assiut University Faculty of Engineering Vol. 42 No.5 September 2014 PP. 1193 – 1214
8. Mohamed S. El-Soghiar, **Mohamed F. F. El-Dosoky**, Ali K. Abdel-Rahman, Hany A. Mohamed, Mahmoud G. Morsy, "Performance Study of a Modified Ranque-Hilsch Vortex Tube", Journal of Engineering Sciences Assiut University Faculty of Engineering Vol. 42 No.6 November 2014 PP. 1414 – 1429
9. M. Eslamian, M. Ahmed, **M. F. El-Dosoky**, M.Z. Saghir, "Effect of thermophoresis on natural convection in a Rayleigh cell filled with a nanofluid", International Journal of Heat and Mass Transfer 81 (2015) 142–156

**ADDITIONAL INFORMATION**

- Co-supervisor of one PhD Student. (The field of study: Developing a CFD code for agricultural fire simulation)

- Co-supervisor of four MSc Students. (The field of study: CFD simulations for Different Unsteady compressible and incompressible flows)

**- I have a strong experience in developing the compressible and incompressible CFD codes.**

- I have a strong experience in implementing commercial CFD codes.

**- I have a strong background in computer programming in FORTRAN as well as utilizing some standard commercial software packages.**

- Through the MSc experimental work I have a good experience in dealing with the following instrument:

* Magneto flow meters
* Digital pressure transducers
* Digital torque and speed transducers
* Data acquisition systems