

C U R R I C U L U M V I T A E
SHADY MOHAMED MOHAMED ALI

CONTACT INFORMATION:

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EDUCATION:

Sept. 2012-Feb. 2017	Degree: Doctor of Philosophy University: The University of Western Ontario, Canada Department: Mechanical and Materials Engineering Research: Numerical simulation of air flow in aeroengine compressors Graduation Date: Feb. 2017 Courses Average Grade : 93.25%
Sept. 2009-May 2012	Degree: Master of Engineering Science University: Cairo University, Egypt Department: Mechanical Engineering Research: Numerical simulation of impulse ventilation for smoke control in an underground car park Graduation Date: May 2012 Courses Average GPA : 3.9
Sept. 2004-Jul 2009	Degree: Bachelor of Science University: Cairo University, Egypt Major: Mechanical Engineering Minor: Mechanical Power Engineering Rank: 2 nd Overall Grade: (87.83%) Distinction with honor. Graduation Project: HVAC design of a healthcare facility - Grade : Distinction

WORKING EXPERIENCE:

Time	Organization	Position	Job responsibility
Sept. 2012- Feb. 2017	Mechanical and Materials Engineering, The University of Western Ontario, London, ON, Canada	Research assistant	Conducting research on numerical simulation of air flow in aeroengine compressors
Jan. 2013- Dec. 2016	Mechanical and Materials Engineering, The University of Western Ontario, London, ON, Canada	Teaching assistant	<ul style="list-style-type: none"> • Tutorials <ul style="list-style-type: none"> ○ Fluid mechanics and heat transfer ○ HVAC I ○ HVAC II ○ Thermodynamics II • Labs <ul style="list-style-type: none"> ○ Applied CFD ○ Thermodynamics II • Proctoring exams
Sept. 2009- May. 2012	Faculty of Engineering, Mechanical Power Department, Cairo University, Giza, Egypt	Research assistant	Conducting research on numerical simulation of smoke management in malls and car parks
Sept. 2009- Aug. 2012	Faculty of Engineering, Mechanical Power Department, Cairo University, Giza, Egypt	Teaching assistant	<ul style="list-style-type: none"> • Tutorials <ul style="list-style-type: none"> ○ Numerical methods in thermal engineering ○ Turbomachines ○ Renewable energies • Labs <ul style="list-style-type: none"> ○ Mechanical engineering laboratories • Proctoring

PUBLICATIONS AND CONFERENCES:

- S. Ali, K. J. Elliott, E. Savory, C. Zhang, R. J. Martinuzzi, and W. E. Lin, “Investigation of the performance of turbulence models with respect to high flow curvature in centrifugal compressors,” *ASME J. Fluids Eng.*, vol. 138, no. 5, pp. 1–10, 2015.
- S. Ali, E. Savory, and C. Zhang, “Numerical investigation of blockage development in an aeroengine transonic axial compressor stage,” in *Proc. 25th Canadian Congress of Applied Mechanics (CANCAM)*, London, Ontario, Canada, 2015.
- S. Ali, E. E. Khalil, and M. A. Fouad, “Effect of fire locations on the performance of impulse ventilation system in an underground car park,” in *Proc. 51st AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition*, Grapevine (Dallas/Ft. Worth Region), Texas, USA, 2013.
- S. Ali and E. E. Khalil, “Numerical investigation of impulse ventilation for smoke control in an underground car park,” in *Proc. 10th International Energy Conversion Engineering Conference*, Atlanta, Georgia, USA, 2012.

INTERSHIPS EXPERIENCE:

- A training internship in “THE GENERAL PETROLEUM CO. S.A.E.”, Cairo, Egypt, from 07/08 till 08/08.
- A training internship in “CAIRO SOUTH POWER STATION”, Helwan, Egypt, from 06/07 till 08/07.
- A training internship in “EL NASR AUTOMOTIVE MANUFACTURING CO.”, Helwan, Egypt, from 07/06 till 08/06.

SCHOLARSHIPS AND AWARDS:

- Awarded scholarship by Schlumberger in 2007.

COMPUTER SKILLS AND APPLICATIONS:

Skill	Methods/Computer Applications
CFD packages	<ul style="list-style-type: none">• Fire Dynamic Simulator FDS• ANSYS CFX• ANSYS FLUENT• ICEM• TurboGrid• ANSYS Meshing
Programming	<ul style="list-style-type: none">• Matlab
MS Office Applications	<ul style="list-style-type: none">• MS Word• MS Excel• MS Power Point

LANGUAGES:

- English, very good command in both written and Speaking.
- Arabic (native language)

MEMBERSHIP IN PROFESSIONAL UNIONS & ACTIVITIES:

- The Egyptian Engineers Syndicate, from 2009-present.