

## Wahib Mufid Salim

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## EDUCATION

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- **Master of Science in Mechanical Engineering, 2017**  
American University of Sharjah (AUS)  
**Thesis Title:** *CFD Study of Particle Concentration and Stokes Number Effect on Erosion Profile*  
CGPA: 3.95/4.0
- **Bachelor of Science in Mechanical Engineering, 2014**  
American University of Sharjah (AUS)  
**Graduating Honor:** *Summa Cum Laude*  
CGPA: 3.91/4.0

## AWARDS AND SCHOLARSHIPS

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- **Graduate Research and Teaching Assistantships**, AUS, Sharjah, UAE, 2014 – 2016
- **Chancellor's List**, AUS, Sharjah, UAE, 2011/2012/2013/2014
- **Dean's List**, AUS, Sharjah, UAE, 2010 – 2014 (Eight Consecutive Semesters)

## RESEARCH EXPERIENCE

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- **General Electric (GE) + AUS**, Sharjah, UAE, 2014 – 2016
  - Numerical modeling of an online wash system for one of GE's gas turbine engine models using ANSYS CFX software
  - Effects of UAE's harsh temperature and dirty atmosphere on the efficiency of the online wash system were tested
- **AUS**, Sharjah, UAE, 2014
  - Numerical modeling of two different swirling turbulent fluid flows in a combustion chamber using ANSYS CFX software
  - Simulation results were compared with experimental data for validation and selection of the best flow-predicting turbulence model
  - Academic paper for the results of one of the swirling flows was published in *International Review of Aerospace Engineering*
  - Conference paper for the results of the other swirling flow was published in the proceedings of the *Seventh International Conference on Modeling, Simulation and Applied Optimization*, Sharjah, UAE, 2017

## PUBLICATIONS

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- W. M. Salim and S. A. Ahmed, "Prediction of Turbulent Swirling Flow in a Combustor Model," *International Review of Aerospace Engineering*, vol. 9, no. 2, pp. 43-50, 2016.
- W. M. Salim and S. A. Ahmed, "Numerical Analysis of Free Vortex Flow in a Combustor Model," in *Seventh International Conference on Modeling, Simulation and Applied Optimization*, Sharjah, UAE, 2017.

## WORK EXPERIENCE

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- **Graduate Research and Teaching Assistant, AUS, Sharjah, UAE, 2014 – 2016**
  - Worked as a research assistant on a research funded by General Electric (GE)
  - Academically assisted in teaching different laboratory courses: computer applications in mechanical engineering, and materials and manufacturing processes laboratory
  - Graded different academic courses: advanced mechanics of materials, composite materials, kinematics and dynamics of machinery, and turbomachines
- **Internship at National Petroleum Construction Company (NPCC), Abu Dhabi, UAE, 2013**
  - Rotated for seven weeks around four different departments
  - Got exposed to maintenance, manufacturing, construction, procurement and offshore activities in oil and gas construction industry

## SKILLS

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- **Personal**  
Research || Independent Work || Teamwork || Team Leadership || Management || Public Speaking || Communication
- **Software**  
ABAQUS || ANSYS (CFX + Fluent) || Autodesk Inventor || C-language || EES || LabView || MATLAB (including simulink and simMechanics) || MS Office
- **Certificates**  
*Fundamentals of Engineering (FE)* issued by National Council of Examiners for Engineering and Surveying (NCEES) in 2014
- **Languages**  
Arabic (Native) || English (Fluent)

## SCORES OF STANDARDIZED TESTS

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- **TOEFL Internet-Based Test, Dubai, UAE, 2018**
  - Reading: 25 || Listening: 26 || Speaking: 29 || Writing: 27
  - Total: 107
- **GRE Computer-Based General Test, Dubai, UAE, 2017**
  - Verbal Reasoning: 153 || Quantitative Reasoning: 157 || Analytical Writing: 4.0

## SOME ACADEMIC COURSE PROJECTS (Graduate + Undergraduate)

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- Optimize the design of a nacelle hinge bracket for Airbus A320
- Design, and kinestatically model and simulate a box transport mechanism
- Develop a computer code to numerically simulate steady fluid flow inside a lid-driven cavity up to Reynolds number of 1000
- Design a VTOL (Vertical Take Off and Landing) fixed-wing UAV (Unmanned Aerial Vehicle) incorporating a multipurpose UGV (Unmanned Ground Vehicle)