



Human AMIRI

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Date of Birth: 15-09-1985
Nationality: Turkish

EDUCATION

- **Middle East Technical University (METU), Ankara, Turkey**
Ph.D. in Aerospace Engineering / Aerodynamics and Propulsion
cGPA: 3.69/4.00
Dates: September, 2012 – September, 2018
 - **Science and Research Branch - Azad University, Tehran, Iran**
M.Sc. in Aerospace Engineering / Propulsion
cGPA: 3.61/4.00
Dates: September, 2009 – May, 2012
 - **Science and Research Branch - Azad University, Tehran, Iran**
B.Sc. in Aerospace Engineering
cGPA: 3.09/4.00
Dates: September, 2003 – September, 2009
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PROFESSIONAL EXPERIENCE

- Scientific Project Expert, METU Center for Wind Energy, METU, Ankara, Turkey. January 2016 to present.
- Researcher at METU Wind Center, September 2012 to December 2015.
- Teaching Assistant, Aerodynamics Laboratory, Science and Research Branch – Azad University, June 2010 to June 2012.

PUBLICATIONS

Journals

- Şemsi Çoşkun, H. Amiri, Oğuz Uzol, Özgür Kurç, “*Experimental investigation of wake flow field and wind comfort characteristics of fractal wind fences*”, Journal of wind engineering and industrial aerodynamics, 168, 32-47, 2017. DOI: <https://doi.org/10.1016/j.jweia.2017.05.001>
- S.M. Nima Shojaee, H. Amiri, “*Investigation of Total Pressure Distribution at Aerodynamic Interface Plane of an “S-shaped” Air Intake at Sideslip Condition*”, International Journal of Natural and Engineering Sciences ISSN: 1307-1149, E-ISSN: 2146-0086, Vol. 6(3), 2012, pp 87-94.

International Conferences and Proceedings

- Percin M., Yazdanpanah M., Amiri H., van de Meerendonk R., van Oudheusden B., “*Flow Field Characteristics of Translating and Revolving Flexible Wings*”, 13th International Symposium on Particle Image Velocimetry (ISPIV), Munich, Germany, 22-24 July, 2019.
- Amiri Hazaveh, H., Bay, A., Aysan, M.S., Yanık, T., Yazdanpanah, M., Yiğili, I., Yağmur, A. S., Perçin, M., Uzol, O. “*Comparison of Wake Models with Porous Disc Wake Profile Measurements*”, Wind Energy Science Conference (WESC), University College Cork (UCC), Ireland, 17 – 20 June 2019.
- Uluocak S., Amiri Hazaveh H., Perçin M., Akpolat M. T., Uzol O., “*Experimental Investigation of the Effects of Different Helicopter Rotor Tip Geometries on Aerodynamic Performance and Tip Vortex Characteristics*”, 44th European Rotorcraft Forum (ERF2018), Delft, The Netherlands, 19-20 September, 2018.
- Amiri Hazaveh H., Uzol O., “*Experimental Study on the Near Wake Flow Characteristics of Fractal Turbulence Grids*”, Wind Energy Science Conference (WESC), Technical University of Denmark, Lyngby Campus, 26 – 29 June 2017.
- Amiri Hazaveh H., Uzol O., “*Investigation of the Near Wake Steady Flow development of a Fractal Square Grid using Particle Image Velocimetry*”, 2nd International Conference on New Research Achievements in Mechanics, Industrial and Aerospace Engineering, September 29, 2016. Tehran, Iran.
- Amiri Hazaveh H., Uzol O., “*PIV study of wall bounded Fractal-grid-generated Turbulence*”, 11th EAWC PhD Seminar on Wind Energy in Europe, September 22-25, 2015, Stuttgart, Germany.
- Sheikholeslam Zadeh M.R., Kazemi D., Amiri H., “*Experimental Analysis of the Influence of Length to Diameter Ratio on Erosive Burning in a Solid Tubular Propellant Grain*”, Applied Mechanics and Materials Vols. 110-116, 2012, pp. 3394-3399, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.110-116.3394. Proceeding of Mechanical and Aerospace Engineering conference, ICMAE2011.

National Conferences and Proceedings

- Uluocak S., Amiri Hazaveh H., Perçin M., Akpolat M. T., Uzol O., “*Helikopter Pal Ucu Şekillerinin Aerodinamik Performansa ve Uç Girdabına Etkisinin Deneysel Olarak İncelenmesi*”, VII. Ulusal

Havacılık ve Uzay Konferansı, 12-14 Eylül 2018, Ondokuz Mayıs Üniversitesi, Samsun, UHUK-2018-064.

- Alican O., Amiri Hazaveh H., Uzol O., “Gaz Türbin Kanaçıklarında Squealer Uç Geometrisinin Uç Girdabi Karakteristiklerine Etkisinin Lineer Kaskad Düzenğinde Deneysel İncelenmesi”, VI. Ulusal Havacılık ve Uzay Konferansı, 28-30 Eylül 2016, Kocaeli Üniversitesi, Kocaeli, UHUK-2016-082.

RESEARCH

- “*Experimental Investigation of the Turbulent Near wake Flow Field of Multi-scale/Fractal Grids*”, Ph.D. Thesis, 2018.
- “*Design and application of a 2D cascade row for turbomachinery flow experiments*”, scientific project by METU Wind - DKTM, 2014-2017.
- “*Wind Turbine Aerodynamics, Active tip vortex control*”, METU Center for Wind Energy Project.
- “*A Numerical and Experimental Study on a Subsonic “S-shaped” Air Intake at Sideslip Condition*”, M.Sc. Thesis.
- “*Numerical Study on Supercavitation*”. B.Sc. Final Project.
- “*Effects of Electro-magneto-hydrodynamics (EMHD) on the flame shape and stability in combustion chamber*”, M.Sc. Seminar.
- “*Flight Test of Homebuilt Aircrafts (JAR-23 category)*”, B.Sc. Apprenticeship, 2007.

CERTIFICATES

- Wind Energy by Technical University of Denmark (DTU) on Coursera. Certificate earned at Tuesday, September 10, 2019 1:26 AM GMT.
- Dantec Dynamics intensive course on installation, operation and maintenance of Particle Image Velocimetry (PIV) system including software training on DynamicStudio for theoretical and analytical post processing of 2D-2C, 2D-3C and volumetric velocimetry PIV data. September 2015, Dantec Dynamics, Skovlunde, Denmark.

PROFESSIONAL SKILLS

- Experimental Aerodynamics
 - Particle Image Velocimetry (Planar and Stereoscopic PIV)
 - Pressure, Temperature, and velocity measurement techniques
 - Wind Tunnel Testing and Experiments
- Software and applications related to Mechanical and Aerospace Engineering: ANSYS, Pointwise, TECPLOT, SOLIDWORKS
- Programming languages: MATLAB, LabView
- ICDL practical skills

ACTIVITIES

- American Physical Society Member Since 2015
- ASME Member Since 2013

- AIAA Member Since 2013
 - Member of Alumni of Azad University (AIAU) since 2009.
 - Member of Azad University Aerospace Engineering Association Since October 2004
 - Member of Iranian Society of Mechanical Engineering (IRSME) Since June 2010
 - Referee and executive staff of the 4th national spaghetti construction competition (SPASTAC), April 2012.
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LANGUAGES

- Turkish (read, write, speak)
 - English (read, write, speak, TOEFL and GRE qualified)
 - Persian (Mother tongue)
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RESEARCH INTERESTS

Experimental Fluid mechanics, Experimental Aerodynamics, Turbulence, Wind tunnel experiments and design, Thermofluids, Turbo-machines, Wind Turbine Aerodynamics.
