Yusuf YEĞİNER

CONTACT INFORMATION

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EDUCATION

Istanbul Technical University (ITU), Istanbul, TÜRKİYE

Ph.D., Aeronautics and Astronautics Engineering,

- Passed the PhD Qualifying Exam, June 2016.
- GPA: 4.00 (over 4.00)
- Thesis Title: *A High Order Approach for Compressible Flow Problems*
- Advisor: Prof. Dr. Mehmet Şahin

M.Sc., Aeronautics and Astronautics Engineering, 2011 - 2014 (*Summa Cum Laude*)

- Thesis Title: *Gravity-driven non-newtonian falling film flow*
- Advisor: Prof. Dr. İbrahim ÖZKOL

B.Sc., Aeronautical Engineering, 2007 - 2011 (*Summa Cum Laude*)

- Honor and High Honor Lists of Istanbul Technical University
- Project Title: *The use of genetic algorithms(GAs) in the optimization of heat exchangers*
- Supervisor: Prof. Dr. İbrahim ÖZKOL
- *One year English Prep. Class, School of Foreign Languages, Sep 2006 to Jun 2007*

Tokat Milli Piyango Ihya Balak Science High School, Tokat, TÜRKİYE

Lise Diploması, Science, June 2006

- TÜBİTAK 2005 - Science Olympiads, Physics

WORKING EXPERIENCE

Theoretical Knowledge Instructor (TKI) — July 2018 to Dec 2020
Ayjet Flight School, Istanbul

Research Assistant — Sep 2011 to Sep 2016
Faculty of Aeronautics and Astronautics, Istanbul Technical University

Teaching Assistant
Faculty of Aeronautics and Astronautics, Istanbul Technical University

Intern — June 2010
8 weeks internship, Tusas Engine Industries (TEI).

- Gained knowledge about the conceptual and the actual design of aircraft engines Also observed how the aircraft manufacturing pipeline works.

Intern — June 2010
2 weeks internship, ITU Mechanical Faculty Engineer's Workshop.

- Learned how to use basic engineering tools & machines.
- Worked at molding machine, welding machine and milling cutter.

Publications

1. **Y. Yeğiner**, M.Sahin, A.Altinkaynak, "An Implicit Meshless RBF-based Differential Quadrature Method Applied to the Lid-Driven Cavity Problem", ICCFD9-2016-274, (9th International Conference on Computational Fluid Dynamics (ICCFD9), 11-15 July/2016, Istanbul -Turkey) **pdf file**.
2. (Chapter 71) **Y. Yeğiner**, S. Kenç, İ. Özkol, G. Kömürgöz, "Ecological Performance Analysis of Irreversible Brayton Cycle", Progress in Exergy, Energy and Environment (Springer, isbn: 978-3-319-04680-8), 31/03/2014 **pdf file**.
3. **Y. Yeğiner**, S. Kenç, İ. Özkol, G. Kömürgöz, ECOP Based Comparative Study of Thermodynamic Cycles, Applied Mechanics and Materials Vol. 390 (2013) pp 655-659. **pdf file**.
4. **Y. Yeğiner**, S. Kenç, İ. Özkol, G. Kömürgöz, Ecological Performance Analysis of Irreversible Rankine Cycle, Applied Mechanics and Materials Vol. 390 (2013) pp 596-600. **pdf file**.
5. **Y. Yeğiner**, S. Kenç, İ. Özkol, G. Kömürgöz, "Ecological Performance Analysis of Irreversible Brayton Cycle". (The Sixth International Exergy, Energy and Environment Symposium, 1-4 July/2013, Rize-Turkey)
6. **Y. Yeğiner**, S. Kenç, İ. Özkol, G. Kömürgöz, ECOP Based Comparative Study of Thermodynamic Cycles. (4th International Conference on Mechanical and Aerospace Engineering, 20-21 July/2013, Moskova-Russia)
7. **Y. Yeğiner**, S. Kenç, İ. Özkol, G. Kömürgöz, Ecological Performance Analysis of Irreversible Rankine Cycle. (4th International Conference on Mechanical and Aerospace Engineering, 20-21 July/2013, Moskova-Russia)

Project Experience

TÜBİTAK Project

- Related to the research about "Ecological Performance Analysis" given in Publications.

Language Skills

Mother language is Turkish.

German
- Beginner

English
- Advanced

Social Activities

- Reading, drawing, writing poems

Research Interests

- Computational fluid dynamics (CFD), parallel computing, high order methods, fluid-structure interactions (FSI), advanced numerical algorithms, aerodynamics, acoustics

Teaching Experience

Teaching Assistant

- Fluid Mechanics Click for syllabus.
- Introduction to Scientific Computing (C) Click for syllabus.
- Introduction to Scientific Computing (F) Click for syllabus.
- Helicopter Theory Click for syllabus.
- Finite Element Method Click for syllabus.

Theoretical Knowledge Instructor

- 031 mass & balance, 033 flight planning & monitoring, 050 meteorology, 061 general navigation, 062 radio navigation
  Click for syllabuses.

Organisational Skills

(9th IC on Computational Fluid Dynamics (ICCFD9), 11-15 July/2016, Istanbul - Turkey)

- Worked at the organisation.

Computer Skills

Engineering Related

- MATLAB, GNU Octave, Mathematica, ANSYS, Tecplot, Gambit, Cubit, Paraview, Catia

Programming

- C, C++,, Fortran 77/90, Python, Assembler x86 (Beginner), HTML

Document Preparation

- LaTeX, Beamer, TeXstudio, MS Office, LibreOffice

Platforms

- GNU/Linux, Windows

References

Prof. Dr. Mehmet Şahin
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