



Hediye Atik, Ph.D.
Asst. Professor of Aerospace Engineering
Atılım University
Department of Aerospace Engineering
06830 İncek, Gölbaşı, Ankara/TURKEY
hediye.atik@atilim.edu.tr
Tel: +90 312 586 8703
Revision Date: 15/06/2020

EDUCATION

1999-2002	Lehigh University, Mechanical Engineering Department, Ph.D.
1992-1997	Middle East Technical University, B.S.

ACADEMIC POSITIONS

05/2020-present	Asst. Professor, Aerospace Engineering Department, Atılım University, Turkey
01/2019-12/2019	Part Time Instructor, Mechanical Engineering Department, Atılım University, Turkey
07/1999-08/2002	Research Assistant, Mechanical Engineering Department, Lehigh University, USA.
08/1998-06/1999	Research Assistant, Mechanical Engineering Department, Rice University, USA.
06/1997-08/1998	Research Assistant, Aerospace Engineering Department, University of Minnesota, USA.

RESEARCH INTERESTS

1	Fluid Mechanics
2	Computational Fluid Dynamics
3	High Performance Parallel Computing
4	Aerodynamics Optimization
5	Flow Control
6	Fluid-Structure Interaction
7	Missile System Design
8	Wind Tunnel Test Techniques
9	Flight Test Techniques
10	Store Separation

JOURNAL PUBLICATIONS

1	Atik, H., Kim, Y., Walker, J.D.A., "Three-Dimensional Separation Induced by a Convected Disturbance", J. Fluid Mechanics, Vol. 503, 2004, pp. 15-46. DOI: 10.1017/S0022112003005706
2	Atik, H., Kim, Y., Van Dommelen, L.L., Walker, J.D.A., "Boundary-Layer Separation Control on a Thin Airfoil Using Local Suction", J. Fluid Mechanics, Vol. 535, 2005, pp. 415-443. DOI:10.1017/S002211200500501X
3	Atik, H., Van Dommelen, L.L., "Autogenous Suction to Prevent Boundary Layer Separation", Journal of Fluids Engineering, Vol.130, January 2008. DOI: 10.1115/1.2813135

PROJECTS

1	Precision Guidance Kit Project (HGSS), TÜBİTAK –SAGE, 2002 -2005, Aerodynamics Design Engineer.
2	Stand off Cruise Missile (SOM) Project, TÜBİTAK –SAGE, 2006 – 2011, Aerodynamics Design Engineer.
3	Wing Assisted Guidance Kit (KGK) Project, TÜBİTAK –SAGE, 2009 – 2012, Aerodynamics Design Engineer and Team Leader.
4	Stand off Cruise Missile for F-35 Lightning II (SOM-J) Project, TÜBİTAK – SAGE, 2016 – 2020, Flight Mechanics Team Leader.
5	High Performance Air to Air Missiles (GÖKTUĞ) Project, TÜBİTAK –SAGE, 2015 – 2017, Aerodynamic Design Team Leader.
6	Transonic Wind Tunnel (YHRT) Project, TÜBİTAK –SAGE, 2017 – 2020, Project Manager.

CONFERENCE PRESENTATIONS

1	Dikbas, E., Atik, H., "CFD-Based Planform Design Study of a Low Aspect Ratio Wing", AIAA Aviation Forum, 2018 Applied Aerodynamics Conference, June 25-29, 2018, Atlanta, Georgia.
2	Atik, H., Baran, O., U, Tuzun, A., "Static Aeroelastic Calculations for a Wing Under Large Deformations", 30th AIAA Applied Aerodynamics Conference, AIAA-2012-2765, 25-28 June 2012, New Orleans, Louisiana.
3	Atik, H., Baran, O., U, Tuzun, A., "Static Aeroelastic Calculations for a High Aspect Ratio Wing", 6th Ankara International Aerospace Conference, AIAC-2011-145, 14-16 September 2011.
4	Basoglu, O., Atik, H., Yildiz, E., "Captive Carry Analyses and Test Results of General Purpose Munition Bomb", AIAA 2011-3960, 29th AIAA Applied Aerodynamics Conference, 27-30 June 2011.
5	Atik, H., Erdem, B., Ilgaz, M., Karbancioglu, I.M., Katirci, A., Mahmutyazicioglu, E., Yalcin, L., "Prediction Capabilities and Comparison of Panel, Semi-Empric and CFD Codes for Missile Aerodynamic Analysis", AIAA 2008-6224, 26th AIAA Applied Aerodynamics Conference, August 2008.
6	Atik, H., Walker, J.D.A., "Boundary-Layer Separation Control Using Local Suction and Injection", AIAA-2005-4937, 4th AIAA Theoretical Fluid Mechanics Meeting, Toronto.

COURSES GIVEN

1	ME 437 Computational Fluid Dynamics
---	-------------------------------------

BOOKS

1	Hediye Atik, Özgür Uğraş Baran, Aydın Tüzün, "Chapter 12, Fluent Computational Effort and Results", Joint Exercise in Aeroelastic Predictions, STO/NATO Technical Report, TR-AVT-203, March 2019. ISBN 978-92-837-2116-1
---	--