

CV:

Education:

❖ **Old Dominion University (ODU)**, Aerospace Engineering, PhD, Norfolk, VA, USA (August 2006 – May 2010)

- Thesis Title: “Analysis of Helicopter Downwash/Frigate Airwake Interaction Using Statistically Designed Experiments”, *Advisor: Prof.Dr. Drew Landman*

❖ **Middle East Technical University (METU)**, Aerospace Engineering, MSc, Ankara, Türkiye (September 1999- June 2003)

- Thesis Title: “Detailed Measurements of Dynamic Stability Derivatives under Roll Oscillations for Standard Dynamic Model in Ankara Wind Tunnel”, *Advisor: Prof.Dr. Hüseyin Nafiz Alemdaroğlu*

❖ **Air Force Academy**, Aeronautical Engineering, BSc, İstanbul, Türkiye (September 1993- August 1997)

Theses Supervised:

MSc

1. Daşık Eren, (2020). “Thermodynamic Cycle Analysis of a Turbojet Engine to be used for UAVs”, National Defense University, Aeronautics and Space Technologies Institute, Aeronautical Engineering.

2. Alabaş Hüsamettin Alperen, (2019). “Computational Fluid Dynamics Analysis of Interaction of Flow around Helicopter Rotor with Ship Airwake”, National Defense University, Aeronautics and Space Technologies Institute, Aeronautical Engineering.

Projects:

1. MISAG-196 “Measurement of Dynamic Stability Derivatives of a Generic Fighter Aircraft Model in Ankara Wind Tunnel”, The Scientific and Technological Research Council (TÜBİTAK) Project, Researcher: Nacaklı Yavuz, 01 March 2002- 01 March 2004.

Courses Taught:

Basic Aerodynamics	Turkish	3
Fluid Mechanics	Turkish	3
Hydraulic and Pneumatic Systems	Turkish	2
Aviation Legislation	English	2
Aerodynamics-I	Turkish	4
Introduction to Aerodynamics	English	3
Measurement Techniques	Turkish	3
Engineering Orientation	Turkish	2
Scientific Research Methods	Turkish	3

Articles Published in International Peer-Reviewed Journals:

1. Nacaklı Y., Landman D., Doane S., (2012). “*Investigation of backward-facing-step flow field for dynamic interface application*”, Journal of the American Helicopter Society, 57(3), 1-9., Doi: 10.4050/JAHS.57.032005.
2. Geçgel M., Nacaklı Y., (2018). “*A methodology for the analyses of unsteady flowfields around forward flying helicopter rotors*”, Journal of Aeronautics and Space Technologies, 11(2), 71-82.

Articles Published in National Peer-Reviewed Journals:

1. Eğinli M.A., Nacaklı Y., (2020). “*Uçak bakım eğitimlerinde artırılmış gerçeklik kullanımının değerlendirilmesi*”, Journal of Aviation, 4(1), 61-78., Doi: 10.30518/jav.738367.

Papers Presented at International Scientific Meetings and Published in Conference Proceedings:

1. Yücer C.T., Nacaklı Y., (2022). “*Effects of the Partial Use of Diesel fuel with Kerosene on the Exergetic Sustainability Performance of an UAV Jet Engine in case of Emergency*”, International Symposium on Aircraft Technology, MRO & Operations.
2. Eginli M.A., Erdem H.A., Civan E., Nacaklı Y., (2021). “*A New Approach in Technical Aviation Education: Interactive Virtual Reality Environments*”, International Society of Military Sciences 2021.
3. Alabaş A., Nacaklı Y., (2019). “*Bir mini insansız hava aracı pervanesinin daimî olmayan üç boyutlu hesaplamalı akışkanlar dinamiği simülasyonu*”, Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi.
4. Nacaklı Y., Geçgel M., (2018). “*İş sağlığı ve güvenliği kapsamında askeri havacılık örnekleri*”, 9. Uluslararası İş Sağlığı ve Güvenliği Kongresi.
5. Nacaklı Y., Yıldırım M., (2014). “*Askeri havacılıkta uçuşa elverişlilik sertifikasyon faaliyetleri ve uçuş emniyetine etkileri*”, 2. Uluslararası Havacılık İşletmeciliği Konferansı.
6. Nacaklı Y., Karadurmuş Z., (2013). “*Structural analytical control program for C-130 fleet of Turkish Air Force*”, 7th Ankara International Aerospace Conference.
7. Nacaklı Y., Landman D., (2011). “*Helicopter downwash/frigate airwake interaction flowfield PIV surveys in a low speed wind tunnel*”, AHS International 67th Annual Forum Technology Display, 2988-2998.
8. Nacaklı Y., Landman D., (2010). “*Identification of regions of ship airwake influence on helicopter downwash using statistically designed experiments*”, International Powered Lift Conference, 235-240.
9. Alemdaroğlu H.N., Nacaklı Y., Uysal H., Şahin T., Quaglotti F., Guglieri G., (2003). “*Roll oscillatory test in a low speed wind tunnel*”, AIAA 41st Aerospace Sciences Meeting and Exhibit, Doi: 10.2514/6.2003-398.

Papers Presented at National Scientific Meetings and Published in Conference Proceedings:

1. Daşık E., Nacaklı Y., (2019). “İHA’lar için kullanılan bir turbojet motorunun bileşenleri ve ekserji analizi parametreleri”, 10. Ulusal Uçak, Havacılık ve Uzay Mühendisliği Kurultayı.
2. Nacaklı Y., Yıldırım M., (2014). “Askeri hava araçlarına yönelik malzeme imalat çalışmalarında hava ikmal bakım merkezlerinin rolü ve uçuşa elverişlilik sertifikasyon faaliyetleri”, 3. Ulusal Havacılıkta İleri Teknolojiler Konferansı.

Editorial Board:

1. Journal of Aeronautics and Space Technologies, Turkish Air Force Academy Printing Office, 01.01.2019-30.06.2019.
2. Journal of Aeronautics and Space Technologies, Turkish Air Force Academy Printing Office, 01.07.2019-31.12.2019.
3. The Journal of Aeronautics and Space Technologies, Turkish Air Force Academy Printing.

Academic Duties:

2017-2019: Air Force Academy Aerospace Engineering Department of National Defense University

2019-2021: Air NCO Vocational School Aeronautical Sciences Department of the National Defense University

Administrative Duties:

2018-2019: National Defense University Air Force Academy Aerospace Engineering Department Vice-President

Professional Experience:

2014-2017: Air Technical Schools Command, Gaziemir/İzmir

- Aircraft Maintenance School

2012-2014: 2nd ASMC Command, Kayseri

- Transportation Aircraft Technical Management Department

2009-2014: 12th Main Airlift Base Command, Erkilet /Kayseri

- Quality Assurance Officer
- Maintenance Operations Officer

2002-2006: 7th Main Jet Base Command, Malatya

- Flight Line Maintenance Officer
- Quality Assurance Officer