

**EK-3**

**ÖZGEÇMİŞ (ÖRNEK FORM)**

1. **Adı Soyadı: Munir Elfarra**
2. **Doğum Tarihi:1977**
3. **Unvanı:Dr. Öğr. Üye.**
4. **Öğrenim Durumu: Doktora**

Derece	Alan	Üniversite	Yıl
Lisans	Havacılık ve Uzay Müh.	ODTÜ	2000
Y. Lisans	Havacılık ve Uzay Müh.	ODTÜ	2005
Doktora	Havacılık ve Uzay Müh.	ODTÜ	2011

5. **Akademik Unvanlar:**

**Yardımcı Doçentlik Tarihi : Nisan 2011**

**Doçentlik Tarihi :**

**Profesörlük Tarihi :**

6. **Yönetilen Yüksek Lisans ve Doktora Tezleri**

**Yüksek Lisans Tezleri**

- Ayad A. Muhamed, "Viscoelastic behaviour of thermosets - thermoplastic polymer composite", completed in January 2017
- Hussein Al-Gburi, "Experimental Investigation of the Effects of Using Ethanol-Gasoline750 and 450 On the Performance and Exhaust Emission Of Spark Ignition Engine In Iraq", completed in March 2017.
- Ameer Hassan Al-Mamoori, "Thermal Characteristics of Phase Change Material Used as Thermal Storage System by Using Solar Energy" completed in April 2017.
- Luay Faisal Karkez Al-Mamory, "Feasibility assessment and ghg analysis for a 75mw wind energy project in Iraq", completed in May 2017.
- Tawfeeq Naji Hussein, "Numerical Investigation on Hydrothermal Performance of A Helical Annular Turbulent Flow in Heat Exchanger", completed in June 2017.
- Hasanain Musafar, "Technical and Financial Evaluation Of A110 Mw Solar Thermal Power Station In Iraq", completed in July 2017.
- Alyaa Dawood, "Designing An Evaporative Cooling System to Store the Summer Vegetables in the Desert Conditions", completed in November 2017.
- Ali Hussein Ali, "Effect of Magnetization and Partial Replacement of Biofuels in the Performance of the Internal Combustion Diesel Engine", completed in November 2017.
- Husam Al-Grbaiti, "The Effect of the Solar Energy on the Efficiency Performance of Spray Irrigation Systems", completed in November 2017.
- Mohanad Al-Mohammed, "The Effects of the Number of Moldboards of Plow By Tillage Depths and Different Speeds on Mechanical Indicators and Physical Properties of Soil", completed in November 2017.

## **Doktora Tezleri**

- Salem Silini, “Wind Assessment for different sites in Libya and proper wind turbine blade design using CFD”, completed in December 2019.
- Hweda Sharif, “Parametric Study of the Effect of Sweep and Winglet on Helicopter Rotor Blade in Hovering Condition Using CFD”, completed in December 2019.

## **7. Yayınlar**

### **Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)**

- Elfarra M. A. “Optimization of helicopter rotor blade performance by spline based taper distribution using neural networks based on CFD solutions”, Engineering Applications of Computational Fluid Mechanics, Volume 13, No.1, 2019.
- Kaya M. and Elfarra M. “Optimization of the Taper/Twist Stacking Axis Location of NREL VI Wind Turbine Rotor Blade Using Neural Networks Based on Computational Fluid Dynamics Analyses”, Journal of Solar Energy Engineering - Including Wind Energy and Building Energy Conservation, Volume 141, Issue 1, Feb. 2019.
- Elfarra M. and Kaya M. “Comparison of Optimum Spline Based Probability Density Functions to Parametric Distributions for the Wind Speed Data in terms of Annual Energy Production”, Energies, Volume 11, Issue 11, 2018. doi:10.3390/en11113190.
- Elfarra M. A, Uzol N.S., Akmandor İ.S., “Investigations on Blade Tip Tilting for HAWT Rotor Blades Using CFD”, International Journal of Green Energy, Volume 12, Issue 2, pages 125-138, 2015.
- Elfarra M. A, Uzol N.S., Akmandor İ.S., “NREL VI Rotor Blade: Numerical Investigation and Winglet Design and Optimization Using CFD”, Journal of Wind Energy, Volume 17, Issue 4, pages 605–626, April 2014.

### **Uluslararası diğer hakemli dergilerde yayınlanan makaleler**

- Kaya M. and Elfarra M. “Effect of taper modification on the performance of NREL VI wind turbine blade for low and mid wind speeds”, Wind Engineering, Volume 43, No 4, pp. 392-403, 2019.
- Elfarra M. and Silini Salem “Technical and Economical Evaluation and GHG Analysis of Wind Power Generation in Four Sites Using Different Weibull Parameters”, International Journal of Renewable Energy Research, Vol. 8, No. 3, 2018.
- Kaya M. and Elfarra M. “CFD Based Optimization of Oscillatory Wing Motion for Maximum Energy Harvesting from Wind”, International Journal of Renewable Energy Research, Vol. 8, No. 1, 2018.

### **Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceedings) basılan bildiriler**

- Akmandor I. S., Elfarra M., “Coupling a Waste Heat Recovery Turbine to an Axial Compressor Boost Stage”, to be presented in the 24th International Society for Air Breathing Engines Conference (ISABE 2019), Canberra, Australia.
- Abdulrahim A., Elfarra M. and Uzol O., “A Numerical Assessment Of Atmospheric Boundary Layer Simulation Inside Two Different Boundary Layer Wind Tunnels”, to be presented in the 10th Ankara International Aerospace Conference (AIAC 2019), Ankara, Turkey
- Elfarra M, Kaya M, and Kadioglu F., “Comparison between Optimum Spline and Weibull Based Probability Density Functions for the Assessment of a Multimodal Wind Data Distribution”, The 10th International Renewable Energy Congress (IREC 2019), Sousse, Tunisia.
- Kaya M. and Elfarra Munir, “Effect of Taper Distribution on the Torque and Thrust Generated by a Wind Turbine Rotor Blade”, The 10th International Renewable Energy Congress (IREC 2019), Sousse, Tunisia.

- Kaya M., Elfarra M. and Kadioglu F., “Investigation of the Effect of Taper Stacking Location on Drag Force for ONERA M6 Wing”, AIAA 2019-2123, SciTech Forum, 07-11 Jan. 2019, San Diego, CA, USA.
- Demiral M., Kadioglu F. and Elfarra M., “Experimental and Numerical Investigation of Adhesively Bonded Single Lap Joints of Laminated Composite Materials”, 2018 Global Conference on Polymer and Composite Materials, Kitakyushu, Japan.
- Kadioglu F., Coskun T. and Elfarra M. “Investigation of dynamic properties of a polymer matrix composite with different angles of fiber orientation”, 5th Global Conference on Polymer and Composite Materials, 2018, Kitakyushu, Japan.
- Elfarra M., Kaya M. and Kadioglu F., “A Parametric CFD Study for the Effect of Spanwise Parabolic Chord Distribution on the Thrust of an Untwisted Helicopter Rotor Blade”, AIAA-2018-1795, Jan. 11, 2018, Orlando, FL, USA.
- Kaya M., Elfarra M. and Kadioglu F., “A Parametric CFD Study for the Effect of Taper/Twist Stacking Point Location on the Torque of NREL VI Wind Turbine Rotor Blade”, AIAA-2018-1496, Jan. 10, 2018, Orlando, FL, USA.
- Mustafa Kaya and Munir Elfarra, “Numerical Optimization Of Oscillatory Motion Of A Flapping Airfoil For Maximum Power Production From Wind Energy”, 8th Ankara International Aerospace Conference, 2015.
- M. Onder Efe, Mustafa Kaya, Munir Elfarra, Ridvan Özdemir, “Autonomous Trajectory Tracking and Imaging via a Quadrotor Type UAV: A System Integration Approach”, The 20th International Conference on Mechatronics and Machine Vision in Practice, M2ViP 2013.
- Elfarra M. A., Akmandor I. S., Uzol N. S., “Pitch Angle Design Of NREL VI Wind Turbine Blade Using CFD”, CFD & Optimization, ECCOMAS Thematic Conference, Antalya, Turkey, May 2011
- Elfarra M. A, Akmandor I. S., Uzol N.S, “Investigation And Optimization Of Winglets For HAWT Rotor Blades”, ETC 9, Istanbul March 2011.
- Elfarra M. A, Uzol N.S., Akmandor İ.S., “Investigations On Tip Tilting For HAWT Rotor Blades”, 10th International Conference on Clean Energy (ICCE-2010) Famagusta, N. Cyprus, September 2010.
- Monier El-farra, Ali Akturk, and I. Sinan Akmandor, “Two Dimensional Finite volume Weighted Essentially Non-Oscillatory Euler Scheme”, 3<sup>rd</sup> Ankara International Aerospace Conference , AIAC 2005 – 047.
- Ali Akturk, Monier El-farra, and I. Sinan Akmandor, “Two Dimensional Finite volume Weighted Essentially Non-Oscillatory scheme using different flux computations”, 3<sup>rd</sup> Ankara International Aerospace Conference, AIAC 2005-097.

### **Yazılan uluslararası kitaplar veya kitaplarda bölümler**

#### **Ulusal hakemli dergilerde yayınlanan makaleler**

- Kaya M. and Elfarra M. “Investigation of the Effect of Taper Stacking Location on Aerodynamic Loads for ONERA M6 Wing at a Fixed Angle of Attack”, Journal of Aeronautics and Space Technology, Volume 12, No. 1, 2019.
- Elfarra M. and Kaya M., “CFD Analysis of the Effect of Parabolic Taper Distribution of an Untwisted Helicopter Rotor Blade”, Journal of Aeronautics and Space Technology, Vol. 11, No. 2, 2018, pp. 59-70.

#### **Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler**

- Kaya M., Elfarra M. “Rüzgar Enerjisinden Maksimum Güç Üretimi Ve Verimi İçin Salınır Kanat Kesitlerinin Salınma Hareketi Eniyilemesi,” UHUK 2014 - 136

- Elfarra M. A., Akmandor I. S., Nurşen C., "SHF santrifüj pompalar için yatışkın (steady-state) akış kovuklanma (Cavitation) modeli", POMSAD 7 Pompa-Vana Kongresi, April 2011.
- Sakar S., Elfarra M. A., Aydoğan Z., Akmandor I. S., "Yerli Rüzgar Türbini Kanat, Jeneratör Ve Kontrol Sistemi Tasarımı", Rügen 2011
- Ersin Şekerci, Monier Elfarra, and Can Albasan, "Rüzgar Türbini Tahmini Yıllık Enerji Üretim Hesaplama Yöntemleri ve Araziye Uygun Rüzgar Türbini Seçimi", Rügen 2009
- Sinan Akmandor, Monier Elfarra, Ersin Şekerci and Can Albasan, "Türkiye'de Rüzgar Enerjisi Güç Tahmini Ve Yerli Türbin Üretimi", ICCI 2009, İstanbul
- Monier El-farra, Ali Aktürk, and I. Sinan Akmandor, "Two Dimensional Finite Volume and Finite Difference Weighted Essentially Non-Oscillatory Euler Schemes", Kayseri VI. Havacılık Sempozyumu 2006.

## Diğer yayınlar

## Uluslararası atıflar

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## 8. Ulusal & Uluslararası Projeler

- Development of a cyclic hydraulic actuator. Supported by KOSGEB, Research and development, innovation and industrial applications program. February 2019 – February 2020. Position: consultant.
- Rotor Blade Design and Analysis for High Speed Helicopter. Supported by Undersecretariat For Defense Industries (SSM) and Turkish Aerospace Industry (TAI), February 2016 - February 2019. Budget: 870000 US\$, Position: Aerodynamic team leader.
- Numerical and Experimental Investigation of Oscillating Wings for Power Production from Wind Energy. Supported by the Scientific and Technological Research Council of Turkey (TÜBİTAK-1001), 2013 – 2015. Budget: 100000 US\$, Position: Researcher.
- Low-altitude UAV for Regional Supervision and Ground Station Development, Supported by Ankara Development Agency, 2012. Budget: 250000 \$, Position: Researcher.

## 9. İdari Görevler

## 10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

## 11. Ödüller

## 12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2018-2019	Güz	Aerodynamics I	3	2	45
		Heat Transfer	3	0	64
		Numerical Methods	3	0	66
	İlkbahar	Aerodynamics II	3	2	43
2019-2020	Güz	Numerical Methods	3	0	66
		Aerodynamics of Compressible Flow	3	0	5
	İlkbahar				

**Not:** Açılmışsa, yaz döneminde verilen dersler de tabloya ilave edilecektir.