



Assoc. Prof. Dr. SÜLEYMAN BAŞTÜRK

Mahmutbey Technology Campus
+90 (212) 604 01 00 / 4052
Interview Hours: Çarşamba- 13:00 - 14:00
suleyman.basturk@altinbas.edu.tr

0000-0002-9016-8397 
- 
EKS-5760-2022 
57203996307 
243733 

EDUCATIONAL INFORMATION

Degree	University	Department	Year(s)
Doctoral Degree	Istanbul Technical University	Construction and Manufacturing (Phd)	2006 - 2010
Master's Degree	Middle East Technical University	Mechanical Engineering (masters) (with Thesis)	1996 - 1999
Bachelor's Degree	Istanbul Technical University	Department of Mechanical Engineering	1989 - 1993

RESEARCH AREAS

Machine Design, Composite Materials, Machining, Functionally Graded Materials, Surface Hardening Processes, Bioprinters

ACADEMIC DUTIES

Duty	University	Area	Year(s)
Associate Professor	Altinbas University	Department of Mechanical Engineering	2022 -
Assistant Professor	Altinbaş University	Department of Mechanical Engineering	2017 - 2022
Assistant Professor	Air Force Academy	Department of Aeronautical Engineering	2011 - 2017
Lecturer	Air Force Academy	Department of Aerospace Engineering	2002 - 2011
Lecturer	Air Force Academy	Department of Aeronautical Engineering	1999 - 2002

ADMINISTRATIVE DUTIES

Duty	University	Year(s)
Member of the Institute Board of Directors	Altinbas University	2023 -
Director of Electric, Autonomous and Unmanned Vehicles Application and Research Center (AUTONOM)	Altinbas University	2021 - 2024
Faculty Board Membership	Altinbas University	2020 - 2025
Head of Department	Altinbas University	2020 - 2025
Education Coordinator	Altinbas University	2020 - 2020
Faculty Board Membership	Altinbas University	2018 - 2025
Head of Department	Altinbas University	2018 - 2025
Erasmus Coordinator	Altinbas University	2017 - 2020
Faculty Board Membership	Altinbas University	2017 - 2020
Member of The Institute Board of Directors	Altinbas University	2017 - 2020
Head of Department	Altinbas University	2017 - 2020
Institute Deputy Director	Altinbas University	2017 - 2020
Mechanical Engineering Dept. Erasmus Coordinator	Altinbas University	2017 -

at the Institute		
Deputy Director of Aeronautics and Space Technologies Institutes	Air Force Academy	2004 - 2017
Member of the Institute's Scientific Board	Air Force Academy	2003 - 2017
Member of the Institute Board of Directors	Air Force Academy	2003 - 2017

ACADEMIC AND PROFESSIONAL MEMBERSHIPS

Organisation	Membership	Year(s)
--------------	------------	---------

NON-UNIVERSITY EXPERIENCE

Country	Organisation	Duty	Year(s)
Azerbaijan	Azerbaijan Air Force Academy	Aeronautical Department, Lecturer	2001 - 2002
Turkey	1st Air Supply and Maintenance Center	Manufacturing Directorate/ Metallic Workshops Group Manager, Engineering Group Manager	1993 - 1996

BOOKS

Milli Teknoloji Hamlesi, Uluslararası İlişkiler Bağlamında Millî Teknoloji Hamlesi

Prof. Dr. Çağrı ERHAN Doç. Dr. Süleyman BAŞTÜRK Dr. Öğr. Üyesi Doğu Çağdaş ATILLA Dr. Öğr. Üyesi Oğuz ATA Arş. Gör. Onur AĞMA

Türkiye Bilimler Akademisi, 978-625-8352-16-0, 2022

Scientific Book Chapter(s)

National Technology Initiative, National Technology Initiative in the Context of International Relations

Prof. Dr. Çağrı ERHAN Assoc. Prof. Dr. Süleyman BAŞTÜRK Assist. Prof. Dr. Doğu Çağdaş ATILLA Assist. Prof. Dr. Oğuz ATA Res. Assist. Onur AĞMA

Turkish Academy of Sciences, 978-625-8352-17-7, 2022

Scientific Book Chapter(s)

Structural Integrity and Monitoring for Composite Materials, Synthetic, Hybrid and Natural Composite Fabrication Processes

Onur Agma, Suleyman Basturk

Springer, 978-981-19-6281-3, 2023

Scientific Book Chapter(s)

ARTICLES

Analysis of polymeric composite materials for frictional wear resistance purposes

Majeed Badeea, BAŞTÜRK SÜLEYMAN

Polymers and Polymer Composites, 2021

International DOI: 10.1177/0967391120903957

An investigation on the friction losses between cylinder liner and piston rings

M Abouchi, S Basturk

Sustainable Engineering and Innovation, 2022

International DOI: https://doi.org/10.37868/sei.v4i2.id161

STATIC STRENGTH AND HARMONIC VIBRATION ANALYSIS OF THE SPIDER CRANE BY COMPUTATIONAL MECHANICS SOFTWARE

SEVDİM TACETDİN, ÇALIK ORHAN KORAY, BAŞTÜRK SÜLEYMAN

AURUM Journal of Engineering Systems and Architecture, 2019

National

ARTICLES**BAZALT/Ni, W/Ni, VE B/Ni FONKSİYONEL DERECELENDİRİLMİŞ KOMPOZİT PLÂKALARIN DİNAMİK BASINÇ YÜKÜ ALTINDAKİ DAVRANIŞLARININ ANALİZİ**

BAŞTÜRK SÜLEYMAN

Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, 2019

National DOI: doi: 10.28948/ngumuh.517162

The nonlinear dynamic response of functionally graded basalt/nickel composite plates

BAŞTÜRK SÜLEYMAN

MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, 2018

International DOI: 10.1080/15376494.2018.1446109

PLAZMA BORLAMAMANIN KESİCİ TAKIMLARIN MİKROSERTLİĞİ ÜZERİNDEKİ ETKİSİ

BAŞTÜRK SÜLEYMAN, ERTEN MUZAFFER

AURUM MÜHENDİSLİK SİSTEMLERİ VE MİMARLIK DERGİSİ, 2017

National

Nonlinear Transient Response of Basalt/Nickel FGM Composite Plates under Blast Load

BAŞTÜRK SÜLEYMAN, UYANIK HAYDAR, KAZANCI ZAFER

Procedia Engineering, 2016

International DOI: 10.1016/j.proeng.2016.11.666

An analytical model for predicting the deflection of laminated basalt composite plates under dynamic loads

BAŞTÜRK SÜLEYMAN, Haydar Uyanık, KAZANCI ZAFER

Composite Structures, 2014

International DOI: 10.1016/j.compstruct.2014.05.018

Nonlinear Damped Vibrations of a Hybrid Laminated Composite Plate Subjected to Blast Load

BAŞTÜRK SÜLEYMAN, Uyanık Haydar, KAZANCI ZAFER

Procedia Engineering, 2014

International DOI: 10.1016/j.proeng.2014.11.121

Titanium machining with new plasma boronized cutting tools

BAŞTÜRK SÜLEYMAN, Şenbabaoğlu Fatih, İslam Coşkun, ERTEN MUZAFFER, LAZOĞLU İSMAİL, GÜLMEZ TURGUT

CIRP Annals - Manufacturing Technology, 2010

International DOI: 10.1016/j.cirp.2010.03.095

An Investigation on The Effect of Carbon Nanoparticles on The Properties of Carbon Brushes

Ahmed A Alasadia, MI Mohammadb, Suleyman Basturk

Engineering and Technology Journal, 2022

International DOI: https://doi.org/10.30684/etj.2022.135387.1270

EXPERIMENTAL INVESTIGATION OF DRAWBEAD EFFECT ON SPRINGBACK IN PROFILE OF DOUBLE CIRCULAR, RECTANGULAR AND TRIANGULAR BENDING SHEET METAL FORMING PROCESSES

Doa'a Abid Abdulwahab, Süleyman Baştürk

AURUM JOURNAL OF ENGINEERING SYSTEMS AND ARCHITECTURE, 2021

International DOI: https://dergipark.org.tr/en/pub/ajes/article/724818

COMPUTER AIDED PART PROGRAM GENERATION FOR A LASER CUTTING MACHINE

BAŞTÜRK SÜLEYMAN

Journal of Naval Science and Engineering, 2009

National

Optimum design of liquefied petroleum gas (LPG) composite hybrid and non-hybrid cylinders by genetic algorithm for maximum failure pressure

Brahim Mouchane, Süleyman Baştürk

International Journal of Mechanics and Materials in Design, 2025

International DOI: https://doi.org/10.1007/s10999-025-09796-y

ARTICLES

Investigation Of Stacking Layer Effect on The Kenaf Hybrid Composite Mechanical Properties for Automotive Application

Khairunnisa Mohd Khaiyazi, Onur Ağma, Süleyman Bastürk, Ahmad Hamdan Ariffin

PROGRESS IN AEROSPACE AND AVIATION TECHNOLOGY, 2023

International DOI: <https://doi.org/10.30880/paat.2023.03.02.001>

The effect of different number of layers and fiber distribution on the performance of composite laminates

NA Mulaan, AS Mahmood, S Basturk

Journal of Physics: Conference Series, 2021

International DOI: [10.1088/1742-6596/1973/1/012067](https://doi.org/10.1088/1742-6596/1973/1/012067)

BORLAMA İLE YÜZEY SERTLEŞTİRME ÇALIŞMALARI

BAŞTÜRK SÜLEYMAN, ERTEN MUZAFFER

Mühendis ve Makine, 2006

National

Numerical study of heat transfer aspects in cutting tools made of Al 2O3, ZrB2, TiB2, TiN using ANSYS fluent software

Kamal Mohammed, Süleyman Baştürk

NİĞDE ÖMER HALİSDEMİR ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, 2022

National DOI: <https://dergipark.org.tr/en/download/article-file/1369006>

PROCEEDINGS

AUTONOMOUS MOBILE ABRASIVE WATERJET CUTTING VEHICLE

ŞİMŞİR UĞUR, BAŞTÜRK SÜLEYMAN

The 17th International Conference on Machine Design and Production, 2016

International

Nonlinear transient response of basalt/nickel FGM composite plates under blast load

BAŞTÜRK SÜLEYMAN, UYANIK HAYDAR, KAZANCI ZAFER

International Symposium on Dynamic Response and Failure of Composite Materials, DRaF2016, 2016

International

QB 50 – BeEagleSat Inner-Outer Design Details and ADCS Testing-Integration

YAKUT E, SÜER MURAT, ULUDAĞ M, BAŞ ERDEM, TÜRKOĞLU S, ASLAN ALİM RÜSTEM, HACIOĞLU

ABDURRAHMAN, ÇELEBİ MANSUR, AYDEMİR MUSTAFA EMRE, BAŞTÜRK SÜLEYMAN, TELLİ ALİ, GÖKÇEBAĞ SERHAN

7th European CubeSat Symposium, 2015

International

EXPERIMENTAL AND NUMERICAL ANALYSIS OF A LAMINATED BASALT COMPOSITE PLATE SUBJECTED TO BLAST LOAD

BAŞTÜRK SÜLEYMAN, SÜSLER SEDAT, UYANIK HAYDAR, TÜRKMEN HALİT SÜLEYMAN, LOPRESTO VALENTINA, GENNA SILVIO, KAZANCI ZAFER

20th International Conference on Composite Materials, 2015

International

Nonlinear damped vibrations of a hybrid laminated composite plate subjected to blast load

BAŞTÜRK SÜLEYMAN, UYANIK HAYDAR, KAZANCI ZAFER

International Symposium on Dynamic Response and Failure of Composite Materials, DRaF2014, 2014

International

High order sliding mode control of a space robot manipulator

ARISOY AYDEMİR, BAYRAKÇEKEN M KEMAL, BAŞTÜRK SÜLEYMAN, GÖKAŞAN METİN, BOGOSYAN O SETA

Proceedings of 5th International Conference on Recent Advances in Space Technologies - RAST2011, 2011

International

PROCEEDINGS

Vakumda Sinterlenmiş, Bilyalı Dövülmüş ve Plazma Nitrokarbürleşmiş FC20205 Çeliğin Yorulma Dayanımının Araştırılması

BAŞTÜRK SÜLEYMAN, ERTEN MUZAFFER, GÜLMEZ TURGUT, BAŞARAN ALİ

6th INTERNATIONAL POWDER METALLURGY CONFERENCE EXHIBITION, 2011

International

Micro Hardness Properties of Plasma Boronized WC Cutting Tools

BAŞTÜRK SÜLEYMAN, ERTEN MUZAFFER, GÜLMEZ TURGUT, BAŞARAN ALİ

14th International Conference on Advances in Materials and Processing Technologies-AMPT 2011, 2011

International

Plazma (İyon) Borürleşmenin Kesici Uçlar (Plaketler) Üzerindeki Etkisi

BAŞTÜRK SÜLEYMAN, ERTEN MUZAFFER, GÜLMEZ TURGUT

V. Makina Tasarım ve İmalat Teknolojileri Kongresi, 2009

National

Bilyalı Dövme İşlemi ve Yüksek Sıcaklığın, Bakır İlaveli Toz Metal Çelik Parçaların Yorulma Dayanımına Etkisi

BAŞARAN ALİ, VAROL REMZİ, PİRGE GÜRSEV, BAŞTÜRK SÜLEYMAN, VAROL HATİCE

8th International Fracture Conference, 2007

International

Borlama İle Yüzey Sertleştirme Çalışmaları

BAŞTÜRK SÜLEYMAN, ERTEN MUZAFFER

III. Makina Tasarım ve İmalat Teknolojileri Kongresi, 2005

National

NiMnGa Manyetik Şekil Hafızalı Malzemelerin Karakterizasyonu ve Performans Testleri için Test Tezgahı Tasarımı

PIRGE GÜRSEV, ARISOY AYDEMİR, BAŞTÜRK SÜLEYMAN, ALTINTAŞ SABRİ

Havacılıkta İleri Teknolojiler ve Uygulamaları Sempozyumu, HİTEK 2004, 2004

National

Design of Semi-Autonomous Street Cleaning Vehicle

Khouloud Sfa Azoud, Süleyman Baştürk

ICAVAD 2024: XVIII. International Conference on Autonomous Vehicles and Autonomous Driving,

International

Design and Development of an Autonomous Beach Cleaning Vehicle

Mahdi Allaoua Seklab, Süleyman Baştürk

ICMAAE 2024: XVIII. International Conference on Mechanical, Automotive and Aerospace Engineering,

International

DYNAMIC ANALYSIS OF A SHOP CRANE AND DESIGN MODIFICATION FOR CONSTRUCTION ENVIRONMENT

Özgür Hamsici, Süleyman Baştürk

INTERNATIONAL CONGRESS OF NEW HORIZONS IN SCIENCE AND SOCIAL SCIENCES,

International

PROJECTS

SÜR-TOR Sistemlerinin Prototip Üretimi Projesi (Project Coordinator)

Scientific research project supported by Higher Education Institutions, 31.01.2022 - 31.03.2022

National Completed

Technical Analysis for High Power Electric Switch for Installation in a Telescopic Current Collector (TCC) System (Executive)

Private Organizations, 30.10.2022 - 01.03.2023

International Completed

KARBON FİBER ARAÇ YARIŞ KOLTUĞU TASARIMI VE İMALATI (Advisor)

Research Project, 29.03.2023 - 29.03.2024

National Completed

PROJECTS

EVA Elektrikli Araç İyileştirilmesi ve Geliştirilmesi Projesi (Executive)

Scientific research project supported by Higher Education Institutions, 21.01.2021 - 20.09.2021

National Completed

Elektrikli Araç Geliştirilmesi Projesi (Executive)

Scientific research project supported by Higher Education Institutions, 18.04.2018 - 20.09.2019

National Completed

Bulut Altı İnsansız Hava Araçlarında Kullanılmak Üzere Yüksek Verimli, Hafif ve Düşük Akustik Görünürlüğe Sahip Elektrikli İtici Motoru Tasarımı ve İmalatı Projesi (Executive)

Scientific research project supported by Higher Education Institutions, 16.03.2023 - 29.09.2023

National Completed

Yara Tedavisinde Kullanılmak Üzere Canlı Hücre Basabilen El Tipi Biyoyazıcı (Bioflux Pen) Prototipinin Geliştirilmesi Projesi (Executive)

Tübitak 1005, 15.03.2025 -

National Continues

EVA-2 Elektrikli Araç Geliştirilmesi Projesi (Executive)

Scientific research project supported by Higher Education Institutions, 11.02.2020 - 27.08.2020

National Completed

ASKERİ STANDARTLARA UYGUN SONSUZ VİDA REDÜKTÖR TASARIMI VE GELİŞTİRİLMESİ PROJESİ HAKEMLİĞİ PROJE NO 7151148 (Project Referee)

TÜBİTAK Project, 09.10.2015 - 09.10.2015

National Completed

Optimum Verimli ve Hafifletilmiş Elektrikli Araç Batarya Paketi Tasarımı ve Üretimi (Project Coordinator)

Scientific research project supported by Higher Education Institutions, 07.03.2023 - 07.10.2023

National Completed

7 Eksenli Gang Tipi CNC Otomat Torna Tezgahı Geliştirme Projesi, Proje No 7131201 (Project Referee)

TÜBİTAK Project, 06.01.2014 - 06.01.2014

National Completed

Elektrikli Araçlarda Karbon Fiber Malzeme Destekli Direksiyon Sistemi Tasarımı ve İmalatı Projesi (Advisor)

Research Project, 02.10.2023 - 29.12.2024

National Completed

7 EKSENLİ GANG TİPİ CNC OTOMAT TORNA TEZGAHI GELİŞTİRME PROJESİ PROJE NO 7131201 (Project Monitoring)

TÜBİTAK Project, 01.11.2013 - 30.04.2015

National Completed

QB50 Küp Uydu Geliştirme Projesi (Researcher)

European Union, 01.11.2011 - 31.12.2018

International Completed

Plazma Borlamanın Kesici Takımlar Üzerinde Etkisinin Araştırılması Projesi (Researcher)

Scientific research project supported by Higher Education Institutions, 01.01.2005 - 04.06.2010

National Completed

THESIS SUPERVISION

Dynamic analysis of a shop crane and design customization

ÖZGÜR HAMSİCİ

2025 Master's Degree

Investigation on the mechanical properties of composite materials (PMMA and SiO2) in prosthesis complete denture

VEIAN ASGHER ACBBAR ACBBAR

2024 Master's Degree

THESIS SUPERVISION

Optimum design of liquefied petroleum gas (LPG) composite cylinders by genetic algorithm research method

BRAHIM MOUCHANE

2024 Master's Degree

DESIGN & DEVELOPMENT OF SEMI-AUTONOMOUS STREET CLEANING VEHICLE

KHOULOU SAFA AZOUD.

2024 Master's Degree

DESIGN & DEVELOPMENT OF AUTONOMOUS BEACH CLEANING VEHICLE

MAHDI ALLAOUA SEKLAB

2024 Master's Degree

THE EFFECT OF CARBON NANOPARTICLES ADDITIVES ON PROPERTIES OF THE CU-GRAPHITE METAL MATRIX FABRICATION BY THE POWDER-METALLURGY METHOD

AHMED ABDULSALAM NEAMAH AL-ASADI

2023 Master's Degree

THE EFFECT OF HEAT TREATMENT ON FIBER REINFORCED POLYMER BARS USING TAGUCHI-BASED GRA
HIND ABDULKAREEM ABDULQADER AL-RAJAB

2023 Master's Degree

Lightweight and durable steering knuckle design and analysis for Shell Eco marathon races

KENAN CAN DEĞİRMENÇİ

2023 Master's Degree

Friction losses between piston rings and cylinder liners

MOHAMAD ABOUCHI

2022 Master's Degree

Thermal analysis of PCM with glass for insulation applications in turkiye

RAMADAN ALI MOHAMED SALIM ELFAITURI

2022 Master's Degree

Numerical investigation on the influence of varying point angle and helix angle of AISI 430

BASHIR HASSAN AHMED AKASHA

2022 Master's Degree

The investigation of the environmental effects on composite materials

ABUKAR ABDULKADIR MUHIDIN

2021 Master's Degree

The effect of different number of layers and fiber distribution on the performance of composite laminates

NAJJM ABDALLA MULAAN AL BUMHDI

2021 Master's Degree

Characterization of a fibre reinforced composite for pipes used in oil and gas industry

FORAT DHEYAA ABED ALZUABIDI

2020 Master's Degree

Experimental investigation of drawbead effect on springback in profile of double circular, rectangular and triangular bending sheet metal forming processes

DOAA ABDULWAHHAB MAJEED MRAZIA

2020 Master's Degree

Numerical study of heat transfer aspects in cuttingtools made of Al₂O₃, ZrB₂, TiB₂ and TiN

KAMAL FAISAL MOHAMMED AL-KINANI

2020 Master's Degree

THESIS SUPERVISION

Numerical investigation of transient thermal and structural analysis in electrical discharge machining (EDM) process by using finite element method

MOHAMMED HATEM NASSR AL-AZZAWI

2020 Master's Degree

Analysis of polymeric composite materials for frictional wear resistance purposes

BADEEA KHUDHAIR MAJEED

2019 Master's Degree

COURSES

Course Type	Course Code	Course Name
Other	ME531	MACHINING MECHANICS AND ANALYSIS
Bachelor's Degree	ME331	MACHINE DESIGN I
Bachelor's Degree	ME216	MECHANICS OF MATERIALS
Bachelor's Degree	ME442	ELECTRIC VEHICLE DESIGN
Bachelor's Degree	ME332	MACHINE DESIGN II
Other	ME521	COMPOSITE MATERIALS
Bachelor's Degree	ME491	MECHANICAL ENGINEERING DESIGN PROJECT I
Bachelor's Degree	ME492	MECHANICAL ENGINEERING DESIGN PROJECT II
Bachelor's Degree	ME459	MACHINING
Bachelor's Degree	ME499	CO-OP IN MECHANICAL ENGINEERING

PERSONAL INFORMATION

CONTACT INFORMATION

Interview Hours: Çarşamba- 13:00 - 14:00

Mahmutbey Technology Campus

Mahmutbey Dilmenler Caddesi, No:26, 34217 Bağcılar - İSTANBUL

+90 (212) 604 01 00 / 4052

