

Assoc. Prof. Dr. SÜLEYMAN BAŞTÜRK

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Interview Hours: Çarşamba- 13:00 - 14:00
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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 Aerospcae 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
Mechanical Engineering Dept. Erasmus Coordinator at the Institute	Altinbas University	2017 -
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
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

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)

Milli Teknoloji Hamlesi, Uluslararası İlişkiler Bağlamında Millî Teknoloji Hamlesi
Prof. Dr. Çağrı ERHAN Doç. Dr. Süleyman BAŞTÜRK Dr. Öğr. Üyesi Doğu Çağdaş ATİLLA Dr. Öğr. Üyesi Oğuz ATA Arş. Gör. Onur AĞMA
Türkiye Bilimler Akademisi, 978-625-8352-16-0, 2022
Scientific Book Chapter(s)

National Technology Initiatıve, National Technology Initiative in the Context of International Relations
Prof. Dr. Çağrı ERHAN Assoc. Prof. Dr. Süleyman BAŞTÜRK Assist. Prof. Dr. Doğu Çağdaş ATİLLA Assist. Prof. Dr. Oğuz ATA Res. Assist. Onur AĞMA
Turkish Academy of Sciences, 978-625-8352-17-7, 2022
Scientific Book Chapter(s)

ARTICLES

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

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

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

ARTICLES

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

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

Analysis of polymeric composite materials for frictional wear resistance purposes
Majeed Badeea,BAŞTÜRK SÜLEYMAN
Polymers and Polymer Composites, 2021
International DOI: 10.1177/0967391120903957

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

EXPERIMENTAL INVESTIGATION OF DRAWBEAD EFFECT ON SPRINGBACK İN PROFILEE 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/ajesa/article/724818

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

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 BORLAMANIN KESICI TAKIMLARIN MIKROSERTLIĞI ÜZERINDEKI ETKISI
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

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

ARTICLES

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

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

COMPUTER AIDED PART PROGRAM GENERATION FOR A LASER CUTTING MACHINE
BAŞTÜRK SÜLEYMAN
Journal of Naval Science and Engineering, 2009
National

BORLAMA İLE YÜZEY SERTLEŞTİRME ÇALIŞMALARI
BAŞTÜRK SÜLEYMAN,ERTEN MUZAFFER
Mühendis ve Makine, 2006
National

PROCEEDINGS

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

AUTONOMOUS MOBILE ABRASIVE WATERJET CUTTING VEHICLE
ŞİMŞİR UĞUR,BAŞTÜRK SÜLEYMAN
The 17th International Conference on Machine Design and Production, 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,Uyanık 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

Vakumda Sinterlenmiş, Bilyalı Dövülmüş ve Plazma Nitrokarbürlenmiş FC20205 Çeliğin Yorulma Dayanımının Araştırılması
BAŞARAN ALİ,VAROL REMZİ,BAŞTÜRK SÜLEYMAN
6th INTERNATIONAL POWDER METALLURGY CONFERENCE EXHIBITION, 2011
International

PROCEEDINGS

Micro Hardness Properties of Plasma Boronızed 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

High order sliding mode control of a space robot manipulator
Arısoy Aydemir,Bayrakçeken M Kemal,BAŞTÜRK SÜLEYMAN,GÖKAŞAN METİN,Bogosyan o Seta
Proceedings of 5th International Conference on Recent Advances in Space Technologies - RAST2011, 2011
International

Plazma (İyon) Borürlemenin 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
PİRGE 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

Yara Tedavisinde Kullanılmak Üzere Canlı Hücre Basabilen El Tipi Biyoyazıcı (Bioflux Pen) Prototipinin Geliştirilmesi Projesi (Executive)
Tübitak 1005, 25.04.2025 - 25.10.2026
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

KARBON FİBER ARAÇ YARIŞ KOLTUĞU TASARIMI VE İMALATI (Advisor)
Research Project, 29.03.2023 - 29.03.2024
National Completed

PROJECTS

Bulut Altı İnsansız Hava Araçlarında Kullanılmak Üzere Yüksek Verimli, Hafif ve Düşük Akustik Görünürlüğe Sahip Elektrikli İtki Motoru Tasarımı ve İmalatı Projesi (Executive)
Scientific research project supported by Higher Education Institutions, 16.03.2023 - 29.09.2023
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

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

SÜR-TOR Sistemlerinin Prototip Üretimi Projesi (Project Coordinator)
Scientific research project supported by Higher Education Institutions, 31.01.2022 - 31.03.2022
National Completed

EVA Elektrikli Araç İyileştirilmesi ve Geliştirilmesi Projesi (Executive)
Scientific research project supported by Higher Education Institutions, 21.01.2021 - 20.09.2021
National Completed

EVA-2 Elektrikli Araç Geliştirilmesi Projesi (Executive)
Scientific research project supported by Higher Education Institutions, 11.02.2020 - 27.08.2020
National Completed

Elektrikli Araç Geliştirilmesi Projesi (Executive)
Scientific research project supported by Higher Education Institutions, 18.04.2018 - 20.09.2019
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

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

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

Design and development of a novel handheld bio-printer
AHMET KASAP
2026 Master's Degree

Dynamic analysis of a shop crane and design customization
ÖZGÜR HAMSİCİ
2025 Master's Degree

THESIS SUPERVISION

Dynamic analysis of a shop crane and design customization
ÖZGÜR HAMSİCİ
2025 Master's Degree

Design & development of autonomous beach cleaning vehicle
MAHDI ALLAOUA SEKLAB
2024 Master's Degree

Design & development of semi-autonomous street cleaning vehicle
KHOULOUD SAFA AZOUD.
2024 Master's Degree

Optimum design of liquefied petroleum gas (LPG) composite cylinders by genetic algorithm research method
BRAHIM MOUCHANE
2024 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

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

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

Numerical investigation on the influence of varying point angle and helix angle of AISI 430
BASHIR HASSAN AHMED AKASHA
2022 Master's Degree

Thermal analysis of PCM with glass for insulation applications in turkiye
RAMADAN ALI MOHAMED SALIM ELFAITURI
2022 Master's Degree

Friction losses between piston rings and cylinder liners
MOHAMAD ABOUCHI
2022 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

The investigation of the environmental effects on composite materials
ABUKAR ABDULKADIR MUHIDIN
2021 Master's Degree

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

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

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

Characterization of a fibre reinforced composite for pipes used in oil and gas industry
FORAT DHEYAA ABED ALZUABIDI
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

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