

**Asst. Prof. OĞUZ KÜRŞAT  
DEMİRCİ**



### Personal Information

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### International Researcher IDs

ScholarID: I4ioQH0AAAAJ

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Publons / Web Of Science ResearcherID: X-1834-2018

Yoksis Researcher ID: 19144

### Education Information

Undergraduate, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, Turkey 2017 - 2021

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Department of Automotive Engineering, Turkey 2014 - 2021

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Department of Machine Education, Turkey 2011 - 2013

Undergraduate, Anadolu University, Faculty Of Economics, Department Of Finance, Turkey 2006 - 2013

Undergraduate, Fırat University, Faculty Of Technical Education, Department Of Mechanics Education - Automotive Teaching Programme, Turkey 2007 - 2011

### Biography

Oğuz Kürşat Demirci was born in Kemaliye district of Erzincan. After completing his secondary education at Erzincan Science High School, Demirci has achieved success in three different fields at the undergraduate level. He received his first bachelor's degree from Fırat University, Faculty of Technical Education, Department of Automotive Education, his second bachelor's degree from Anadolu University, Faculty of Economics, Department of Finance, and his third bachelor's degree from Erzincan Binali Yıldırım University, Faculty of Engineering, Department of Mechanical Engineering. He has achieved academic success by being selected as an honour and high honour student in all three undergraduate programs and was awarded the "Faculty First Prize" at Fırat University Faculty of Technical Education.

After completing his master's degree at Gazi University Institute of Science and Technology, Department of Mechanical Education, he successfully completed his doctoral studies at Gazi University Institute of Science and Technology, Department of Automotive Engineering in 2021 and earned the title of "doctor".

He started his academic career as a lecturer at Aksaray University, Technical Sciences Vocational School in 2013; he transferred to Erzincan Binali Yıldırım University, Vocational School in 2014. He is currently continuing his academic studies at this institution.

Demirci has published numerous articles in national and international refereed journals and presented scientific papers. He has also taken an active role in various projects supported by the European Union.

Throughout his academic life, Oğuz Kürşat Demirci, who has adopted the principle of not only transferring knowledge but also endearing the academic world to his students and his environment, aims to contribute to the development of individuals in the light of science while sharing his professional knowledge. He is married and has two children.

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Tourism, Kültür Varlığı Kaçakçılığıyla Mücadele, T.C. MINISTRY of CULTURE and TOURISM, 2024

Other, Devlet Malını Koruma, REPUBLIC OF TURKIYE TAX AUDIT BOARD PRESIDENCY, 2024

Environment and Sustainability, Günlük Hayatta Su Verimliliği, REPUBLIC OF TURKİYE MINISTRY OF AGRICULTURE AND FORESTRY, 2024

Environment and Sustainability, Çevre ve Sıfır Atık, REPUBLIC OF TURKİYE MINISTRY OF ENVIRONMENT, URBANISATION AND CLIMATE CHANGE, 2024

Sustainable Energy Resources, Günlük Hayatta ve Kamu Binalarında Enerji Verimliliği, Republic of Türkiye Ministry of Energy and Natural Resources, 2024

Vocational Training, İHA ile Havadan Haritalama Teknikleri, Skyview Havacılık TR-İHA-E-40, 2024

Vocational Training, İHA ile Zirai İlaçlama Eğitimi, Skyview Havacılık TR-İHA-E-40, 2024

Vocational Training, İnsansız Hava Aracı Ticari Pilot Başarı Sertifikası (İHA-0, İHA-1), SKYVIEW Havacılık, 2024

Vocational Training, Temel Radyo Haberleşme Eğitim sertifikası, SKYVIEW Havacılık, 2024

Security, 1. Deprem Farkındalık Eğitim Programına Giriş, 2. Depremle İlgili Temel Bilgiler ve Türkiye'nin Depremselliği, 3. Deprem Öncesi, 4. Deprem Anı ve Sonrası Eğitimleri, REPUBLIC OF TURKIYE HUMAN RESOURCES TRAINING AND DEVELOPMENT DEPARTMENT, 2023

Education Management and Planning, Eğitimcilerin Eğitimi Programı Başarı Sertifikası, Erzincan Binali Yıldırım Üniversitesi Sürekli Eğitim ve Araştırma Merkezi, 2021

Occupational Health and Safety, İş Sağlığı ve Güvenliği Temel Eğitimi, Erzincan Binali Yıldırım Üniversitesi İş Sağlığı ve Güvenliği Uygulama ve Araştırma Merkezi, 2018

## Dissertations

Doctorate, The Investigation of the Effects of Using CNG on Engine Performance Emissions and Combustion in an HCCI Engine, Gazi University, Fen Bilimleri Enstitüsü, Department of Automotive Engineering, 2021

Postgraduate, Buji ile ateşlemeli bir motorda Miller Çevrimi uygulaması, performans ve emisyon karakteristiklerinin incelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Makine Eğitimi Abd, 2013

## Research Areas

Mechanical Engineering, Hydrogen Technologies and Fuel Cells, Heat and Mass Transfer, Fuels and Combustion, Heating, Refrigerating and Air Conditioning, Internal Combustion Engines, Thermal machines, Engineering and Technology

## Academic Titles / Tasks

Lecturer PhD, Erzincan Binali Yildirim University, Meslek Yüksekokulu, Makine Ve Metal Teknolojileri Bölümü, 2021 - Continues  
Lecturer, Erzincan Binali Yildirim University, Meslek Yüksekokulu, Motorlu Araçlar Ve Ulaştırma Teknolojileri, 2014 - 2021  
Lecturer, Aksaray University, Aksaray Teknik Bilimler Myo, Motorlu Araçlar Ve Ulaştırma Teknolojileri Bölümü / Otomotiv Teknolojisi Programı, 2013 - 2014

## Academic and Administrative Experience

Program Koordinatörü, Erzincan Binali Yildirim University, Meslek Yüksekokulu, Motorlu Araçlar ve Ulaştırma Teknolojileri, 2019 - Continues

## Courses

Piston Engines, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
THERMODYNAMICS, Associate Degree, 2021 - 2022  
HYDRAULIC AND PNEUMATIC SYSTEM IN THE AIRCRAFTS (2. GROUP), Associate Degree, 2021 - 2022  
DAMAGE DETERMINATION AND EVALUATION, Associate Degree, 2020 - 2021  
ENGINE TECHNOLOGY, Associate Degree, 2021 - 2022  
PISTON ENGINES, Associate Degree, 2020 - 2021  
HYDRAULIC AND PNEUMATIC SYSTEM IN THE AIRCRAFTS (1. GROUP), Associate Degree, 2021 - 2022  
OCCUPATIONAL SAFETY AND HEALTH IN AVIATION (2. GROUP), Associate Degree, 2021 - 2022  
VEHICLE SAFETY SYSTEMS, Associate Degree, 2021 - 2022  
VEHICLE MECHANICS, Associate Degree, 2021 - 2022  
CAREER COUNSELING AND VOCATIONAL GUIDANCE, Associate Degree, 2021 - 2022  
AUTOMOTIVE SPARE PARTS, Associate Degree, 2020 - 2021  
SYSTEM ANALYSIS AND DESIGN, Associate Degree, 2020 - 2021, 2018 - 2019  
POWER TRAIN SYSTEMS, Associate Degree, 2021 - 2022  
OCCUPATIONAL SAFETY AND HEALTH IN AVIATION (1.GROUP), Associate Degree, 2021 - 2022  
AUTOMOTIVE MATERIALS TECHNOLOGY, Associate Degree, 2020 - 2021  
ALTERNATIVE ENGINES AND FUEL SYSTEMS, Associate Degree, 2020 - 2021, 2018 - 2019  
VEHICLE COMFORT SYSTEMS, Associate Degree, 2020 - 2021  
ENGINE TEST AND TUNING, Associate Degree, 2021 - 2022  
EMISSION CONTROL, Associate Degree, 2021 - 2022  
VEHICLE MOTION CONTROL SYSTEMS, Associate Degree, 2021 - 2022  
HYDRAULIC AND PNEUMATIC SYSTEM IN THE AIRCRAFTS (3. GROUP), Associate Degree, 2021 - 2022  
OCCUPATIONAL SAFETY AND HEALTH IN AVIATION (3. GROUP), Associate Degree, 2021 - 2022  
HEATING AND COOLING SYSTEMS, Associate Degree, 2020 - 2021  
BEHAVIOR AND QUALITY OF SERVICE, Associate Degree, 2021 - 2022  
MACHINE ELEMENTS, Associate Degree, 2021 - 2022  
PHYSICS, Associate Degree, 2021 - 2022  
UÇAKLARDA HİDROLİK VE PNÖMATİK SİSTEMİ (İÖ)), Associate Degree, 2018 - 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

1. INVESTIGATION OF THE COMBINED USE OF DIESEL AND CNG FUELS ON AN HCCI ENGINE USING RESPONSE SURFACE METHODOLOGY (RSM) (QUARTILE 2)  
Demirci O. K., Çınar C., Kocakulak T.

## Articles Published in Other Journals

- I. **Polluting Effects of Wastes Generated in Engine Vehicle Repair-Service Businesses, Storage, Disposal and Reuse of Wastes**  
Çetin M., Demirci O. K.  
Quest Journal of Research in Environmental and Earth Sciences, vol.10, no.12, pp.59-65, 2024 (Peer-Reviewed Journal)
- II. **Wastes in Automotive Maintenance Businesses, Its Effects on Employees and Precautions**  
ÇETİN M., DEMİRCİ O. K.  
International Journal of Automotive Science and Technology, vol.8, no.4, pp.431-438, 2024 (Peer-Reviewed Journal)
- III. **HCCI-DI Bir Motorda Doğal Gaz Kullanımının Performans ve Egzoz Emisyonlarına Etkisinin İncelenmesi**  
DEMİRCİ O. K., ÇINAR C.  
GAZİ ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ PART: C TASARIM VE TEKNOLOJİ, vol.7, no.2, pp.317-330, 2019 (Peer-Reviewed Journal)
- IV. **Performance and emission characteristics of a miller cycle engine**  
DEMİRCİ O. K., UYUMAZ A., SARIDEMİR S., ÇINAR C.  
INTERNATIONAL JOURNAL OF AUTOMOTIVE ENGINEERING AND TECHNOLOGIES, vol.7, pp.107-116, 2018 (Peer-Reviewed Journal)
- V. **Erzincan'da Doğal Gaz Kullanımının Hava Kalitesine Etkisi**  
ÇETİN M., DEMİRCİ O. K.  
Erzincan University Journal of Science and Technology, vol.9, no.1, pp.8-18, 2016 (Peer-Reviewed Journal)
- VI. **THE ROLE OF THE CHEMICAL SCIENCES TRAINING ON THE EMISSION CONTROL SYSTEMS IN VEHICLES**  
ÇETİN M., DEMİRCİ O. K.  
EDUCATION JOURNAL, vol.4, no.1, pp.20-26, 2015 (Peer-Reviewed Journal)
- VII. **Energy and Economic Analysis of the Wind Turbine Plant's Draft for the Aksaray City**  
TANER T., DEMİRCİ O. K.  
Applied Ecology and Environmental Sciences, no.2, pp.82-85, 2014 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF THE CONTRIBUTION OF REGENERATIVE BRAKING SYSTEMS USED IN ELECTRIC VEHICLES TO THE INCREASE OF MILEAGE**  
Demirci O. K., Çetin M.  
Bursa 3. Uluslararası Matematik ve Mühendislik Kongresi, Bursa, Turkey, 20 - 22 September 2024, vol.1, no.1, pp.25-32
- II. **Meslek Yüksekokullarının Otomotiv Teknolojisi Programlarında Sorunlar ve Çözüm Önerileri**  
DEMİRCİ O. K., ÇETİN M.  
XII. Uluslararası Meslek Yüksekokulları Sempozyumu, Ankara, Turkey, 10 October 2024
- III. **Otomotiv Tamirhanelerinde Atık Üretimi, Çevresel Etkileri ve Otomotiv Kökenli Atıkların Önlenmesi**  
ÇETİN M., DEMİRCİ O. K., TANDIROĞLU A.  
2nd International Symposium on Automotive Science and Technology, Ankara, Turkey, 08 September 2021, vol.1, no.1, pp.504-510
- IV. **Dizel Motorlarında Doğal Gaz Kullanımının Ekonomik Analizi**  
DEMİRCİ O. K., ÇINAR C., ÇETİN M., DEMİRCİ A.

1st International Symposium On Automotive Science And Technology (ISASTECH2019), Ankara, Turkey, 5 - 06 September 2019, vol.1, no.1, pp.533-537

- V. **Fındık Yağı Biyodizeli Üretimi, Yakıt Olarak Kullanımı, Performans ve Emisyon Karakteristikleri**  
ÇETİN M., DEMİRCİ O. K.  
14th International Combustion Symposium (INCOS2018), Karabük, Turkey, 25 - 27 April 2018, vol.1, no.80, pp.406-413
- VI. **Benzin Ve MTBE10 Yakıtları ile Çalışan Buji Ateşlemeli Bir Motorda Performans ve Emisyon Karakteristiklerinin İncelenmesi**  
Çınar C., Demirci O. K., Uyumaz A.  
13. Uluslararası Yanma Sempozyumu, Bursa, Turkey, 9 - 11 September 2015, vol.1, pp.1-7
- VII. **Otomotiv Teknolojisi Programı İçin Teknoloji Fakültesi Modelinin Uygulanması ve Bölgeye Katkısına Yönelik Bir Araştırma**  
DEMİRCİ O. K., ÇETİN M., DEMİRCİ A.  
4. Uluslararası Meslek Yüksekokulları Sempozyumu, Yalova, Turkey, 21 - 23 May 2015, vol.1, no.1, pp.869-876
- VIII. **Üniversite Kent Etkileşimi ve Sürdürülebilirlik**  
Çetin M., Demirci O. K., Kuş H.  
8. USİMP ULUSAL KONGRESİ, Konya, Turkey, 9 - 10 June 2015, pp.1
- IX. **Meslek Yüksek Okullarına Bağlı Havacılık Programlarının Türkiye deki Durumu**  
ŞAHİN M., KARATAY E., ÇETİN M., DEMİRCİ O. K.  
II. Ulusal Sinanpaşa MYO Kongresi, AFYON, Turkey, 23 - 24 May 2014
- X. **Meslek Yüksek Okullarına Bağlı Popüler Bölümler**  
KARATAY E., ŞAHİN M., ÇETİN M., DEMİRCİ O. K.  
II. Ulusal Sinanpaşa MYO Kongresi, AFYON, Turkey, 23 - 24 May 2014
- XI. **Mezuniyet Sonrası Meslek Yüksekokulu Öğrencilerinin İş Bulmasını Etkileyen Faktörler**  
ÇETİN M., DEMİRCİ O. K., ŞAHİN M., KARATAY E.  
II. Ulusal Sinanpaşa MYO Kongresi, AFYON, Turkey, 23 - 24 May 2014

## Supported Projects

DEMİRCİ A., ÇETİN M., DEMİRCİ O. K., EU Supported Other Project, OTO TAMİRCİLİĞİNDE YENİLİKLER, GENÇ KUŞAKLAR VE YENİ UFUKLAR Projesi, 2016 - 2017

## Memberships / Tasks in Scientific Organizations

OTOMOTİV MÜHENDİSLERİ DERNEĞİ, Member, 2018 - Continues

## Scientific Refereeing

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, November 2022

International Journal of Automotive Engineering and Technologies, Other Indexed Journal, May 2022

International Journal of Automotive Science and Technology, Other Indexed Journal, January 2022

International Journal of Energy Applications and Technologies, Other Indexed Journal, December 2021

## Metrics

Publication: 20

## **Congress and Symposium Activities**

2nd International Symposium on Automotive Science and Technology, Attendee, Ankara, Turkey, 2021  
1st International Symposium On Automotive Science And Technology (ISASTECH2019), Attendee, Ankara, Turkey, 2019  
14th International Combustion Symposium (INCOS2018), Attendee, Karabük, Turkey, 2018  
8th USIMP NATIONAL CONGRESS, Attendee, Konya, Turkey, 2015  
13th International Combustion Symposium, Attendee, Bursa, Turkey, 2015  
4th International Vocational Schools Symposium (UMYOS'15), Attendee, Yalova, Turkey, 2015  
II. National Sinanpaşa Vocational School Congress, Attendee, Afyonkarahisar, Turkey, 2014

## **Awards**

Demirci O. K., FACULTY FIRST PRIZE, Fırat Üniversitesi, June 2011

## **Representation and Promotion Activities**

Institutional Representation, Erzincan Binali Yıldırım Üniversitesi, Turkey, Erzincan, 2022 - 2022  
Institutional Representation, Ortadoğu Teknik Üniversitesi, Turkey, Ankara, 2022 - 2022

## **Non Academic Experience**

Free Trade Zone, Canlar Kuruyemiş, Toptan/ Perakende Satış, Toptan/ Perakende Satış