

# Asst. Prof. BARIŞ DOĞAN

## Personal Information

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## International Researcher IDs

ScholarID: GWHxe3YAAAAJ

ORCID: 0000-0002-5490-9821

Publons / Web Of Science ResearcherID: AAR-8477-2020

ScopusID: 23990043800

Yoksis Researcher ID: 21857



## Biography

Barış DOĞAN was born in 1978 in Izmir. He completed his high school education at Izmir Çınarlı Anatolian Technical High School, Electronics Department, and graduated in 1996. In 1997, he enrolled in the Computer and Control Education Program at Marmara University's Faculty of Technical Education, from which he graduated in 2002. After graduation, he began working as a Computer Technical Teacher at Kadıköy Anatolian Commercial and Vocational High School under the Ministry of National Education. In the same year, he started his Master's degree in the Computer and Control Education Program at Marmara University's Institute of Science. While working as a technical teacher, he also worked as an adjunct lecturer in the Computer Technology and Programming Department at Marmara University's Technical Sciences Vocational School for three semesters between 2003 and 2006. In June 2006, he was appointed as a Research Assistant in the Mechatronics Education Department of the faculty from which he graduated. In 2012, under the Ministry of Science, Industry and Technology's Techno-Entrepreneurship Capital Support program (TÜBİTAK 1512), he founded BCD Teknik ARGE ve Robotik Otomasyon San. Tic. Ltd. In 2015, he received one month of training in entrepreneurship, international trade, and product development in Silicon Valley, USA, under the TÜBİTAK 2239 program. In the same year, he transferred to a full-time position in the Mechatronics Engineering Department of the Faculty of Technology at Marmara University. In 2016, he commercialized his Techno-Entrepreneurship business idea "Smart Dump Truck" to be used in the construction of Istanbul Airport. From August 2018 to February 2021, he worked as a technical consultant for AVIONICS systems at DELTAV Space Technologies Inc., one of the key stakeholders in the national space program. In August 2020, he was appointed as an Assistant Professor. He is also one of the founding partners of MİLTEKSAN CNC Technology and Control Systems Inc., established in July 2020 to develop a domestic new-generation 5-axis CNC controller. He continues to work on control systems in the same faculty.

## Education Information

2007 - 2018	Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Bilgisayar-Kontrol Eğitimi (Y) (Tezli), Turkey
2002 - 2007	Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Bilgisayar-Kontrol Eğitimi (Y) (Tezli), Turkey
1997 - 2002	Undergraduate, Marmara University, Faculty of Technical Education, Electronic and Computer Education, Turkey

## Foreign Languages

## Certificates, Courses and Trainings

2017	Sivil Havacılık Genel Müdürlüğü İnsansız Hava Aracı Ticari Pilot Sertifikası İHA-1, Personal Evolution, Samsun 19 Mayıs Üniversitesi UZAYTEM
2016	TÜBİTAK 1601 Mentor RD Training Eğitimi, Commercialization, Marmara University
2016	TÜBİTAK 1601 TeknoMENTORs Eğitimi, Commercialization, Middle East Technical University
2015	TÜBİTAK 2239 - A.B.D. Silikon Vadisi'nde "Uluslararası İş Geliştirme ve Hızlandırıcı Eğitimi", Commercialization, Club Silicon Valley Inc.
2014	Girişimci Destek Programı Oryantasyon Eğitimi, Entrepreneurship, TÜBİTAK TÜSSİDE

## Dissertations

2018	INTEGRATING COMPUTER INTEGRATED FLEXIBLE MANUFACTURING SYSTEM (CIM/FMS) INTO MECHATRONICS EDUCATION AND CURRICULUM DEVELOPMENT, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Doctorate
2007	WEB BASED SYSTEM CONTROL AND DEVELOPMENT OF REMOTE ACCESS LABORATORY, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Postgraduate

## Research Areas

Simulation, Modelling and Identification, Controllers, Industrial automation, Communication Control Systems, Stability, Discrete Time Systems and Computer Control, Control Systems and Instrumentation, System Diagnostics, Time Varying Systems, Smart Factors, Field and Service Robots, Computer Vision, Human and Robot Interaction, Mechatronic Systems, Route and Motion Planning, Pattern Recognition and Analysis, Simulation and Modelling, Computer Networks, Equipment, Software, Printed Circuits, Thin Film, Thick Film and Hybrid ICs, Circuit Theory, Sensing Devices and Transducers, Electronic Circuits, Passive Circuit Components, Cables, Switches and Connectors, Electrical Machine Theory and Design, Electric Motor Drivers, Robotics, Mechatronics, Modeling and Simulation of Dynamic Systems

## Academic Titles / Tasks

2020 - Continues	Assistant Professor, Marmara University, Faculty of Technology, Mechatronic Engineering
2018 - 2020	Research Assistant PhD, Marmara University, Faculty of Technology, Mechatronic Engineering
2015 - 2018	Research Assistant, Marmara University, Faculty of Technology, Mechatronic Engineering
2006 - 2015	Research Assistant, Marmara University, Faculty of Technical Education, Mechatronic Education
2005 - 2006	Visiting Lecturer, Marmara University, Vocational School of Technical Sciences, Computer Technologies
2002 - 2006	Teacher, Ministry Of Education, Kadıköy Anatolian Trade Vocational High School
2003 - 2003	Visiting Lecturer, Marmara University, Vocational School of Technical Sciences, Computer Technologies

## Academic and Administrative Experience

2018 - Continues	Coordinator of Faculty Publicity and Student Clubs, Marmara University, Faculty of Technology
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## Courses

2023 - 2024	İleri Otomatik Kontrol (Güz), Undergraduate
2021 - 2022	Graduation Project, Undergraduate
2020 - 2021	Introduction to Computer Systems, Undergraduate
2020 - 2021, 2019 - 2020	Usage of Fundamental Information Technologies, Undergraduate
2020 - 2021, 2019 - 2020	Control Systems, Undergraduate
2019 - 2020	Automatic Control, Automatic Control Systems, Undergraduate
2019 - 2020	Industrial Automatic Control, Undergraduate
2020 - 2021	Electrical Motor Drivers, Undergraduate
2016 - 2017	Electronics 2, Undergraduate
2016 - 2017	Graduation Project 2, Undergraduate
2016 - 2017	Flexible Manufacturing Systems, Undergraduate
2016 - 2017	Workplace Training, Undergraduate
2016 - 2017	Electronics 1, Undergraduate
2005 - 2006, 2002 - 2003	Network Programming, Associate Degree
2005 - 2006, 2002 - 2003	Graduation Project, Associate Degree
2005 - 2006	Visual Programming 2, Associate Degree

## Advising Theses

2022	Doğan B., Erdal H., Postgraduate, K.PEHLİVAN(Student), Developing An Optical and Pattern Recognition Based Precision Landing System For Rotary wing UAVS
2020	Erdal H., Doğan B., Postgraduate, F.TİRYAKI(Student), Deep Learning Based Object Detection via UAV and Computation of GNSS Location Coordinates
2019	Demir Ö., Doğan B., Postgraduate, Ö.KUTLU(Student), ANALYSIS OF IMAGES OBTAINED BY UNMANNED AERIAL VEHICLE BY DEEP LEARNING METHODS

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

- I. **A new device for assessment and training the human balance and coordination: Marmara Balance and Education System (MarBES)**  
KURU ÇOLAK T., Özen T., Günay Yazıcı C., Sarı D. M., Karabacak N., SARI Z., POLAT M. G., DOĞAN B., TARIM M.  
Irish Journal of Medical Science, vol.192, no.5, pp.2409-2416, 2023 (SCI-Expanded)
- II. **The Role of the Maker Movement in Engineering Education: Student Views on Key Issues of Makerspace Environment**  
DOĞAN B., DOĞAN B., ÜLKÜ E. E., BAŞ A., ERDAL H.  
INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.36, no.4, pp.1161-1169, 2020 (SCI-Expanded)
- III. **A comparative study of denoising sEMG signals**  
BAŞPINAR U., Senyurek V. Y., DOĞAN B., Varol H. S.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, no.4, pp.931-944, 2015 (SCI-Expanded)
- IV. **EXPERIMENT-BASED DETERMINATION of DC MOTOR PARAMETERS and OPTIMIZATION of PARAMETER DETERMINATION RESULTS**  
Erdal H., Doğan B.

- V. **System Control Through the Internet and a Remote Access Laboratory Implementation**  
Doğan B., Erdal H.  
Lecture Notes In Computer Science, vol.4823, pp.532-541, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Design and Construction of Atmospheric Particle Sampling System by Unmanned Aerial Vehicle**  
Akkoyunlu B. O., Oruç İ., Alpman E., Doğan B., Baltacı H.  
International journal of advances in engineering and pure sciences (Online), vol.33, no.1, pp.90-96, 2021 (Peer-Reviewed Journal)
- II. **Smart Tipper**  
Doğan B.  
ST Otomasyon Dergisi, no.60, pp.116-119, 2013 (Peer-Reviewed Journal)
- III. **Electronic Stabilization Control Module**  
Doğan B.  
Otomasyon Dergisi, no.250, pp.368-370, 2013 (Peer-Reviewed Journal)
- IV. **Computer Based Automation Of A Model Train Layout Whose Technology Relies On 1930's**  
Doğan B., Bayar H., Utkan M.  
Otomasyon Dergisi, no.225, pp.220-228, 2011 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Reliability of balance and coordination measurements evaluated using Marmara Balance and Education System (MarBES) device in healthy young individuals**  
Kuru Çolak T., Özen T., Günay Yazıcı C., Sarı D. M., Karabacak N., Sarı Z., Polat M. G., Doğan B., Tarım M.  
Uluslararası Denge Kongresi, Gaziantep, Turkey, 25 - 26 November 2022
- II. **Inline contactless optical measuring of glass fiber properties and retrofitting an adaptive cooling system for glass fiber production**  
Eberhardt B., Akdere M., Doğan B., Eryılmaz O.  
Aachen Reinforced, Aachen, Germany, 17 - 19 October 2022, pp.1-2
- III. **CNC System Design Part I: Jerk Limited Trajectory Generation with Micro Splines**  
Kahraman A., Demir E., Başlamışlı S. Ç., Doğan B., Tunçer O., Altıntaş Y.  
TOK2022 Otomatik Kontrol Ulusal Toplantısı, Elazığ, Turkey, 15 - 18 September 2022, pp.269-274
- IV. **Analysis Of Images Obtained By Unmanned Aerial Vehicle By Deep Learning Methods**  
Kutlu Ö., Demir Ö., Doğan B.  
1. Uluslararası Bilişim ve Yazılım Mühendisliği Konferansı, Ankara, Turkey, 6 - 07 November 2019, pp.1-4
- V. **Sinirsel hesaplama çubuğunun mini-bilgisayar ortamında koşturulan derin sinir ağları uygulamasına etkisinin incelenmesi**  
TİRYAKI F., DOĞAN B., ERDAL H.  
2. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 21 - 23 June 2019
- VI. **MATLAB Simulink Tabanlı Otomatik Kod Üretimi ve Gömülü Anti Windup PI Denetleyici Tasarımı**  
Sayın F. S., ERDAL H., DOĞAN B.  
Otomatik Kontrol Ulusal Toplantısı, TOK2014, Kocaeli, Turkey, 11 - 13 September 2014
- VII. **MATLAB Simulink Response Optimization Aracı ROA ile Kontrolör Katsayılarının Belirlenmesi**  
ERDAL H., DOĞAN B.  
Otomatik Kontrol Ulusal Toplantısı ve Sergisi, TOK2013, Malatya, Turkey, 26 - 28 September 2013

- VIII. **Remote Access Control Laboratory Implementation Academic Success Analysis**  
ERDAL H., ERSOY S., DOĞAN B.  
The 6th International Computer and Instructional Technologies Symposium, ICITS2012, Gaziantep, Turkey, 4 - 06 October 2012, pp.206
- IX. **Telemeter Application Online Monitor and Control of an Open Field Converter over GPRS**  
ONAT M., DOĞAN B., Abanoz H.  
2nd International Symposium on Computing in Science Engineering, ISCSE2011, Aydın, Turkey, 1 - 04 April 2011, pp.251-253
- X. **Design of an experimental system for scanning EMG method to investigate alterations of motor units in neurological disorders Nörolojik bozukluklardaki motor ünite değişik ikliklerinin araştırılmasına yönelik taramalı EMG yöntemi için bir deneysel sistemin tasarımı**  
Göker İ., Doğan B., Baslo M. B., Ertaş M., Ülgen Y.  
2009 14th National Biomedical Engineering Meeting, BIYOMUT 2009, Balçova, İzmir, Turkey, 20 - 22 May 2009
- XI. **Interface Design for Automation of the Scanning EMG Method**  
Doğan B., Göker İ., Baslo M. B., Erdal H., Ülgen Y.  
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.265-266
- XII. **COMPUTER BASED DC MOTOR PARAMETER IDENTIFICATION, SIMULATION and PARAMETER ESTIMATION**  
Erdal H., Doğan B., Taşkın S.  
5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 - 15 May 2009, pp.26-31
- XIII. **System control through the Internet and a remote access laboratory implementation**  
Doğan B., Erdal H.  
The 6th International Conference on Web-based Learning ICWL2007, Edinburgh, United Kingdom, 15 - 17 August 2007, pp.212-217
- XIV. **Uzaktan Erişimli Laboratuvar Uygulamaları İçin Yazılım Tasarımı**  
DOĞAN B., ERDAL H.  
Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu UMES2007, Kocaeli, Turkey, 20 - 22 June 2007, pp.58-61

## Expert Reports

- I. **Dosya No: 2016/110 E.**  
Doğan B.  
T.C. İSTANBUL 13. ASLİYE TİCARET MAHKEMESİ, pp.7, İstanbul, 2017
- II. **File Number: 2010/509 E.**  
Doğan B., Oktay Özdemir S., Özket C.  
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.68, İstanbul, 2016
- III. **File Number: 2016/132**  
Doğan B., Oktay Özdemir S., Özket C.  
T.C. İSTANBUL 6. ASLİYE TİCARET MAHKEMESİ, pp.14, İstanbul, 2016
- IV. **File Number: 2014/58**  
Doğan B., Gezgin S., Kandemir C.  
T.C. İSTANBUL 9. ASLİYE HUKUK MAHKEMESİ, pp.8, İstanbul, 2016
- V. **File Number: 2011/36**  
Doğan B., Gezgin S., Kandemir C.  
T.C. İSTANBUL 9. ASLİYE HUKUK MAHKEMESİ, pp.11, İstanbul, 2016
- VI. **Dosya No: 2013/423**  
Doğan B., Gezgin S., Kandemir C.  
T.C. İSTANBUL 9. ASLİYE HUKUK MAHKEMESİ, pp.6, İstanbul, 2016
- VII. **File Number: 2013/119**

- Dođan B., Akkanat H., Akın H.  
T.C. İSTANBUL 6. ASLİYE TİCARET MAHKEMESİ, pp.15, İstanbul, 2015
- VIII. **File Number: 2013/571 D. İş**  
Dođan B., Berzek A. N., Özgöncü H.  
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.76, İstanbul, 2014
- IX. **File Number: 2013/126 E.**  
Dođan B., Özket C.  
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.6, İstanbul, 2013
- X. **File Number: 2012/118 E.**  
Dođan B., Ökten N. Z., Şahiniz S.  
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ , pp.24, İstanbul, 2013
- XI. **File Number: 2008/415 E.**  
Dođan B., Ergül N., Kepekçi Ş. D.  
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.20, İstanbul, 2013
- XII. **File Number: 2011/273**  
Dođan B., Şenol İ., Özket C.  
T.C. İSTANBUL ASLİYE 46. TİCARET MAHKEMESİ, pp.10, İstanbul, 2013
- XIII. **File Number: 2012/451 D. İş**  
Dođan B.  
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.9, İstanbul, 2012
- XIV. **File Number: 2011/489 E.**  
Dođan B., Ercan R. M., Soysal A.  
T.C. İstanbul 46. Asliye Ticaret Mahkemesi, pp.14, İstanbul, 2012
- XV. **File Number: 2010 /403 E.**  
Dođan B., Güman N., Akın H.  
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.6, İstanbul, 2012
- XVI. **File Number: 2011/240**  
Dođan B., Akkanat H., Kök H.  
T.C. İSTANBUL 48. ASLİYE TİCARET MAHKEMESİ, pp.8, İstanbul, 2012
- XVII. **File Number: 2012/73 D. İş**  
Dođan B., Şenol İ., Benzek A.  
T.C. İSTANBUL 45. ASLİYE TİCARET MAHKEMESİ, pp.88, İstanbul, 2012
- XVIII. **File Number: 2011/191 D. İş**  
Dođan B.  
T.C. İSTANBUL ÜMRANİYE 3. SULH HUKUK MAHKEMESİ, pp.3, İstanbul, 2011
- XIX. **File Number: 2009/93**  
Dođan B., Oktay Özdemir S., Soysal A.  
T.C. İSTANBUL 7. SULH HUKUK MAHKEMESİ, pp.11, İstanbul, 2010
- XX. **File Number: 2008/234 E.**  
Dođan B.  
T.C. İSTANBUL ÜMRANİYE 2. ASLİYE CEZA MAHKEMESİ, pp.6, İstanbul, 2009
- XXI. **File Number: 2008/214**  
Dođan B.  
T.C. İSTANBUL ÜMRANİYE 2. ASLİYE CEZA MAHKEMESİ, pp.2, İstanbul, 2008
- XXII. **File Number: 2006/208 E.**  
Dođan B.  
T.C. İSTANBUL ÜMRANİYE 2. ASLİYE CEZA MAHKEMESİ, pp.2, İstanbul, 2008

## Supported Projects

2022 - 2024	Development of a production technology to reduce carbon fiber costs by using thermochemical pretreatment, TUBITAK Project
2021 - 2024	Optimization and Model Based Control of Cooling System Used in Glass Fiber Manufacturing, TUBITAK Project
2021 - 2024	5 Eksen Yeni Nesil CNC Kontrol Sistemi ve Dijital İkiz Platformu Geliştirilmesi, TUBITAK Project
2019 - 2020	İHA Üzerinden Derin Öğrenme Tabanlı Nesne Belirlenmesi ve GNSS Konum Koordinatlarının Hesaplanması, Project Supported by Higher Education Institutions
2018 - 2020	Marmara Üniversitesi Ürün Geliştirme Merkezi (MÜRGE MER) Kurulumu Projesi, Development Agency
2017 - 2019	INCREASING THE AWARENESS OF MEMS PRODUCTION AND RESEARCH WITH MICRO ELECTROMECHANICAL SYSTEMS (MEMS) DESIGN AND FABRICATION TECHNOLOGIES TRAININGS, Project Supported by Other Official Institutions
2015 - 2016	Control Systems and Basic Signal Processing Laboratory Research and Development Infrastructure Project, Project Supported by Other Official Institutions
2014 - 2015	Computer Aided Design and Manufacturing CAD CAM and Computer Aided Manufacturing CIM Laboratories Infrastructure Development and Modernization, Project Supported by Other Official Institutions
2014 - 2014	Mechatronics Distance Education And Project Management Information Sharing Network Center Of Excellence, Development Agency
2012 - 2014	Electronic Stabilization and Control Module For Transport Vehicles, Project Supported by Other Official Institutions
2005 - 2007	Internet Based Control Of Gunt Process Training System, Project Supported by Higher Education Institutions

## Patent

2012	Doğan B., Electronic stabilization and control module for transport vehicles, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2011-G-208414 , Standard Registration, 2012
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## Memberships / Tasks in Scientific Organizations

2015 - Continues	Institute of Electrical and Electronics Engineers (IEEE) - Control Systems Society, Member
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## Scientific Refereeing

November 2020	TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, HAUS ARGE LİMİTED ŞİRKETİ, Turkey
December 2018	TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCIE
January 2015	MEASUREMENT, SCI Journal

## Scientific Consultations

2021 - 2022	Project Consultancy, Altınay Robot Teknolojileri San. Ve Tic. A.Ş.
2018 - 2021	Scientific Consultancy, DELTAV Space Technologies Inc.

## Tasks In Event Organizations

08 Mart 2023	Dođan B., 15. Uluslararası MEB Robot Yarışması, Social Activities, Bursa, Turkey
08 Nisan 2020	Dođan B., 14th International MEB Robot Competition, Social Activities, Şanlıurfa, Turkey
10 Nisan 2019	Dođan B., 13rd International MEB Robot Competition, Social Activities, Samsun, Turkey
09 Mayıs 2018	Dođan B., 12. Uluslararası MEB Robot Yarışması, Social Activities, Sivas, Turkey
10 Mayıs 2017	Dođan B., 11th International MEB Robot Competition, Social Activities, Konya, Turkey

## Metrics

Publication: 45
Citation (WoS): 12
Citation (Scopus): 17
H-Index (WoS): 2
H-Index (Scopus): 2

## Congress and Symposium Activities

2013	Otomatik Kontrol Ulusal Toplantısı ve Sergisi, TOK2013, Working Group, Malatya, Turkey
2012	The 6th International Computer and Instructional Technologies Symposium, ICITS2012, Working Group, Gaziantep, Turkey
2011	2nd International Symposium on Computing in Science & Engineering, ISCSE2011, Working Group, Aydın, Turkey
2009	5th International Advanced Technologies Symposium, Karabük University, IATS09, Working Group, Karabük, Turkey
2009	14. Biyomedikal Mühendisliği Ulusal Toplantısı, BİYOMUT2009, Working Group, İzmir, Turkey
2007	The 6th International Conference on Web-based Learning ICWL2007, Working Group, Edinburgh, United Kingdom
2007	Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, UMES2007, Working Group, Kocaeli, Turkey

## Awards

September 2018	TÜBİTAK International Aerial Vehicle Competition (UAVTURKEY 2018) Rotary-wing Category Honorable Mention, Tübitak
December 2012	ULAKBİM Uluslararası Bilimsel Yayınları Teşvik Ödülü, Tübitak Ulakbim

## Entrepreneurship Activities

2012 - Continues	Limited, BCD Teknik ARGE ve Robotik Otomasyon San. Tic. Ltd. Şti., 24 May 2012, Co-Founder
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## Non Academic Experience

2021 - 2022	Technology Development Zone, Altınay Robot Teknolojileri San. Ve Tic. A.Ş., R&D
2018 - 2020	Technology Development Zone, DeltaV Space Technologies Company, AVIONICS
2002 - 2006	Ministry, Kadıköy Anatolian Trade Vocational High School, Computer