

# Erol GÜLTEKİN



**Date of Birth** : 1984  
**Birth of Place** : Ardanuç / Artvin

**Driving License** : B, A2, E  
**Military Service** : Done

## EDUCATION

### Ph.D.

2014 – 2019

### University of Turkish Aeronautical Association, Ankara

Graduate School of Aeronautics and Astronautics,  
Mechanical and Aeronautical Engineering  
Subject of Ph.D. Thesis: Design and Development of a Two-Stroke Engine with Rhombic Drive Mechanism  
Thesis Supervisor: Prof. Dr. Can Çınar, Gazi University, Ankara, Turkey

### MSc

2008 – 2011

### Uludağ University - Politecnico di Torino, Bursa

Graduate School of Natural and Applied Sciences,  
Mechanical Engineering Dept. Automotive Engineering  
Subject of MSc Project: A Survey of Hybrid Electric Vehicle Powertrain and Configurations of Automotive Firms  
Project Supervisor : Prof. Dr. Ferruh Öztürk, Uludağ University, Bursa, Turkey

### BSc

2003 - 2008

### Gazi University, Ankara

Technical Education Faculty, Automotive Teaching

### High School

1998 - 2003

### Hürriyet Anatolian Technical High School, Bursa

Aircraft Repair Technology and Body Engine

## EXPERIENCE

2012 - Ongoing

### University of Turkish Aeronautical Association

Mechanical Engineering – Assist. Prof. Dr. 2019- Ongoing  
Lecturer 2012-2019

Ankara

#### Administrative Roles:

Vice Dean 2020-Ongoing  
Vice Chairperson 2019- Ongoing  
Member of Department Committee 2012- Ongoing  
Coordinator of Internship Commission 2012- Ongoing  
Coordinator of Double Major&Minor Degree 2012- Ongoing  
Bologna Supervisor 2012-2016  
Coordinator of MÜDEK 2014-2015  
Vice Chairperson of Scientific Research Project Office 2013-2014

2011 - 2012

### Rollmech Automotive A.Ş.

Product Engineering–Benchmark/Value Analysis Engineer

Bursa

2010 - 2011

### K.K. Astsubay MYO Komutanlığı

Department of Automotive – Lecturer-Military Service

Balıkesir

2008 - 2010

### Bosch Rexroth Otomasyon San. ve Tic. A.Ş.

Bosch Production System - Master Student Employee

Bursa

06.2007-07.2007

### Türk Traktör A.Ş.

R&D -Trainee

Ankara

01.2007-02.2007

### Doğuş Oto Ankara

After Sale Service - Trainee

Ankara

08.2006-09.2006

### Mais A.Ş. Bursa Yetkili Servisi

After Sale Service- Trainee

Bursa

07.2004-08.2004

### Bursa Motorlu Araçlar Mercedes-Benz Bayii

Training Dept.- Voluntary Trainee

Bursa

07.2002-08.2002

### 1.Hava İkmal Bakım Merkezi

Technical Dept.- Trainee

Eskişehir

07.2001-08.2001

### THY A.Ş.

Technical Dept.- Trainee

İstanbul

## QUALIFICATIONS

<b>Foreign languages</b>	<ul style="list-style-type: none"><li>▪ English-Fluently – YÖKDİL 93.75/100</li><li>▪ German-A2 Level</li></ul>
<b>Computer skills</b>	Catia, Ansys, Abaqus, SolidWorks, Pro-Engineer, Autocad, Matlab, Minitab, Visio and MS Office. Basic level Fortran, Pascal and Delphi.

## ARTICLES & CONFERENCE PAPERS

**A1. Gültekin, E., and Çınar, C.**, “A thermodynamic comparison of rhombic drive and slider-crank mechanisms for a two-stroke SI engine”. *Energy Source, Part A: Recovery, Utilization, and Environmental Effects*, 2019, doi: 10.1080/15567036.2019.1639000

**A1. Gültekin, E., Çınar, C., and Okur, M.** “Design, manufacturing and testing of a two-stroke engine with rhombic drive mechanism”. *International Journal of Environmental Science and Technology*, 2020;17:455-462, doi: 10.1007/s13762-019-02488-z

**B1. Gültekin, E.** “A Range Model for a Series Hybrid Electric Vehicle”. The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, **IMSMATEC 2019**, Cappadocia.

**B1. Gültekin, E., Çınar, C.** “Design and Analysis of a Novel Rhombic Driven Two-Stroke SI Engine”. The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, **IMSMATEC 2019**, Cappadocia.

**B1. Gültekin, E., Kılınçarslan, E.** “An Investigation for Thermal Behavior of Honeycomb-like Structure in Electrical Vehicle Batteries”. The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, 24th-26th June, 2020, **IMSMATEC 2020**, Turkey.

**B1. Gültekin, E., Karagöz, M.O., Demir, K., Sahin, M.S, Günes, E.C.** “Development of a Dynamometer for Performance Measurement of Small Size Internal Combustion Engines”. The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, 24th-26th June, 2020, **IMSMATEC 2020**, Turkey.

**B2. Gültekin, E., Torun, T.B. and Barutçu, M.B.** “DESIGN OF A MECHANICAL SCISSOR LIFT FOR A COACH MODEL”. 8th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, June 12-14, 2020/Ankara, Turkey.

## JOURNAL REVIEWER:

Energy Conversion and Management, Energy, Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Propulsion and Power Research

## COURSES (Last two academic years):

Academic Year	Term	Course Name	Hours/week		Number of Students
			Theoretical	Applied	
2018-2019	Fall	MEC 121 Computer Aided Engineering Graphics I	2	2	12
		MEC 231 Materials Science and Manufacturing Techniques	3	-	30
		MEC 382 Systems of Lean Manufacturing	3	-	39
	Spring	MEC 122 Computer Aided Engineering Graphics II	2	2	47
		MEC 453 Mechanics of Vehicle	3	-	9
		MEC 298 Integrated Training I	-	-	22
		MEC 300 Integrated Training II	-	-	37
Summer	MEC 382 Systems of Lean Manufacturing	3	-	29	

2019-2020	Fall	MEC 121 Computer Aided Engineering Graphics I	2	2	39
		MEC 225 Thermodynamics	4	-	19
		MEC 493 Senior Project I	6	-	8
		OM 231 Teknik Resim (Gazi University)	2	1	39
	Spring	MEC 122 Computer Aided Engineering Graphics II	2	2	72
		MEC 298 Integrated Training I	-	-	9
		MEC 300 Integrated Training II	-	-	25
		MEC 496 Senior Project II	6	-	7
		OM 232 Bilgisayar Destekli Çizim (Gazi University)	2	1	94

#### Already taught courses

Introduction to Mechanical Engineering, Human Factors, Aircraft Structures and Systems-Module 11A, Computer Structure and Usage, Technology of Gasoline Engines, Automotive Electric and Electronics, Technology of Diesel Engines, Mechanics of Motor Vehicles, Systems of Fuel Injection.

#### PROJECTS

Owner of Project-Participant/Director	Project Name	Project Date
Rollmech Automotive - Erol Gültekin	McLaren Door Hinges	2012
Rollmech Automotive - Erol Gültekin	Ford V362 Door Hinges	2012
Rollmech Automotive - Erol Gültekin	Ford V363 Door Hinges	2012
Rollmech Automotive - Erol Gültekin	Ford C-Max Sliding Door Mechanism	2012
Rollmech Automotive - Erol Gültekin	Ford B-Max Sliding Door Mechanism	2012
Rollmech Automotive - Erol Gültekin	Fiat Doblo Sliding Door Mechanism	2011
Rollmech Automotive - Erol Gültekin	Renault Clio Trunk Hinges	2011
Rollmech Automotive - Erol Gültekin	Renault Clio Trunk and Hood Locks	2011
Rollmech Automotive - Erol Gültekin	Renault Clio Hand brake	2011
Rollmech Automotive - Erol Gültekin	Renault Seat Locks	2011
Rollmech Automotive - Erol Gültekin	Mercedes-Benz Heavy Vehicle Hinges	2011
Rollmech Automotive - Erol Gültekin	Cost Reduction Activities	2011
Bosch Rexroth - Erol Gültekin	Total Productive Maintenance(TPM)	2010
Bosch Rexroth - Erol Gültekin	Quick Change Over (QCO)	2010
Bosch Rexroth - Erol Gültekin	Value Stream Mapping and Analysing	2010
Bosch Rexroth - Erol Gültekin	5S Activities	2009

Bosch Rexroth - Erol Gültekin	Plant Standardisation Activities	2009
Bosch Rexroth - Erol Gültekin	Machine Layout Project	2008
Gazi University.&METU - Erol Gültekin	Turbo-Rotary Engine Design Project	2007

## TRAININGS

Some of the trainings taken:

- **Cessna 172 S Training**  
Turkish Aeronautical Association- 2012
- **EASA Part 147 Flight Crew Licensing Initial Training**  
Airline Maintenance&Engineering Training Limited- 2012
- **EASA Part 147 European Operations Initial Training**  
Airline Maintenance&Engineering Training Limited- 2012
- **EASA Part 66 & 147 Initial Training**  
Airline Maintenance&Engineering Training Limited- 2012
- **EASA Part 145 Initial Training**  
Airline Maintenance&Engineering Training Limited- 2012
- **EASA Part M Training Course**  
Airline Maintenance&Engineering Training Limited- 2012
- **Stack-Up Training**  
Rollmech Automotive A.Ş.-2011
- **Lean 6 Sigma Green Belt Training**  
Rollmech Automotive A.Ş.-2011
- **Problem Solving Techniques Training**  
Bosch A.Ş.-2009
- **5S Training**  
Bosch A.Ş.-2009
- **Poka Yoke Training**  
Bosch A.Ş.-2009
- **Value Stream Design Training**  
Bosch A.Ş.-2009
- **Applied TPM(Total Productive Maintenance) Training**  
Bosch A.Ş.-2009
- **ISO 16949 Management Systems for Automotive Sector Basic Training**  
SASTEK A.Ş.-2007
- **ISO 14001:2004 Environmental Management Systems Basic Training**  
SASTEK A.Ş.-2007
- **ISO 9001-2000 Quality Management Systems Basic Training**  
SASTEK A.Ş.-2007
- **Catia V5R17**  
Gazi University-2007
- **Chassis Technologies Training**  
Bakırcı Automotive-2007
- **Public Relations**  
BELTEK-2007
- **SolidWorks**  
BELTEK-2006
- **Foreign Politics-Foreign Trade**  
Gazi University-2005

**Awards** High School Top Degree, Honor/ High Honor Degrees at BSc.

**Abroad experience** Belgium–Investigaton of fiber-optic infrasructure-EU Project- 2014, France, Netherlands, Luxemburg.

**Hobbies** Skiing, paragliding, free type parachute, aeromodeling, swimming, athletics

**References** The references will be provided after request.