

# CURRICULUM VITAE



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## Education

Ph. D. 2010-2018	KARABÜK UNIVERSITY Graduate School of Natural and Applied Sciences / Department of Mechanical Engineering (Ph.D.)  <u>Thesis Title:</u> Investigation Of The Effect Of Hole Quality Of Different Cutting Tools In Drilling Of Cfrp Composite Plates With Traditional And Orbital Methods <u>Supervisor:</u> Assistant Professor Gökhan SUR
M.Sc. 2006-2009	KARABÜK UNIVERSITY Graduate School of Natural and Applied Sciences / Department of Mechanical Education (M.Sc.)  <u>Thesis Title:</u> Investigations Of Surface Quality In End Milling Of Glass Fiber Reinforced Polymer Composites <u>Supervisor:</u> Assistant Professor Birhan IŞIK
Undergraduate 2002-2006	BULENT ECEVIT UNIVERSITY Karabük Technical Education Faculty / Department of Mechanical Education (B.Sc.)

## Positions & Employment

Lecturer 2017-Present	DÜZCE UNIVERSITY / Technology Faculty / Department of Mechanical and Manufacturing Engineering
Lecturer 2009-2017	DÜZCE UNIVERSITY / Technical Education Faculty / Department of Design and Construction

## Tasks in Projects

1. Investigation of Effects on Machinability of Cryogenic Process Applied Cutting Tools in Hot Machining of Hard Machining Materials, **Researcher**, 18/12/2013 - 29/12/2015 (National)
2. Designing, manufacturing and performance of a parallel kinematic machine tool for the precision manufacturing, **Coordinator**, 18/05/2015 - 18/05/2016 Ministry of Science, Industry and Technology (National)
3. Rotor-Bearing System: Modeling, Experimentally Analyzing, and Utilizing Non-Traditional Optimization Techniques, **Researcher**, 08/04/2010 - 13/03/2015 (National)

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## Lessons\*

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### Undergraduate

Semester	Lesson Name	ECTS
(2016-2017)	Modern Manufacturing Methods	3
(2016-2017)	Graduate Thesis	2
(2016-2017)	Entrepreneurialism	4
(2016-2017)	Worker's Health And Safety	2
(2016-2017)	Fundamental Of The Manufacturing Process	6
(2016-2017)	Computer Aided Design	3
(2017-2018)	Computer Aided Manufacturing	3
(2017-2018)	Machine Tools	3
(2017-2018)	Hydraulics And Pneumatics	4
(2017-2018)	Machining Technology And Applications	6
(2017-2018)	Measurement And Control	2
(2017-2018)	Transportation Technique	3
(2017-2018)	Plastic Injection Molding	4

### Graduate

Semester	Lesson Name	ECTS
(2018-2019)	Advance Manufacturing Methods	3
(2018-2019)	Industrial Hydraulic and Pneumatic	3

\* The last two years

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## Publications

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### Articles Published in Journals Indexed by SCI (SCI & SSCI & Arts and Humanities):

1. **Erkan Ömer**, Işık Birhan, Çiçek Adem, Kara Fuat (2013). Prediction of Damage Factor in end Milling of Glass Fibre Reinforced Plastic Composites Using Artificial Neural Network. *Applied Composite Materials*, 20(4), 517-536., Doi: 10.1007/s10443-012-9286-3.
2. **Erkan Ömer**, Sur Gökhan Cutting Tool Geometry In The Drilling Of Cfrp Composite Plates And Taguchi Optimisation Of The Cutting Parameters Affecting Delamination. *Sigma Journal of Engineering and Natural Sciences* 36 (3), 2018, 619-628.
3. **Erkan Ömer**, Işık Birhan, Demetgül Mustafa, Ibrahim Nur Tansel (2014). Selection Of Optimal Machining Conditions For The Composite Materials By Using Taguchi And Gonns. *Measurement*, 48, 306-313., Doi: 10.1016/J.Measurement.2013.11.011

### Articles Published in Other International Refereed Journals:

1. Saruhan Hamit, Saridemir Suat, **Erkan Ömer** (2013). The Effect Of Full Annular Rub On The Rotating machinery System Considering Different Rub Materials And Shaft Running Speeds. *Upb Scientific Bulletin, Series D: Mechanical Engineering*, 75(4)

### International Conference Proceedings:

1. Yücel Emre, Günay Mustafa, Ayyıldız Mustafa, Erkan Ömer, **Kara Fuat**, "Effect to human health of cutting fluids in machining processes and sustainable use", *6th International Advanced Technologies Symposium (IATS)*, 16-18 May 2011, Elazığ, Turkey.

2. Kara Fuat, **Erkan Ömer**, Yücel Emre (2018) "Optimization Of The Surface Roughness In Turning Process For Different Hardness Of AISI 1045 Steel", **The 3<sup>rd</sup> International Congress of Vocational and Technical Sciences**, Gaziantep University, Gaziantep, Turkey.
3. Yücel Emre, **Erkan Ömer**, Kara Fuat (2018). "The Effect Of Cutting Parameters And Tool Geometry On Surface Roughness In Milling Different Bearing Materials", **The 3<sup>rd</sup> International Congress of Vocational and Technical Sciences**, Gaziantep University, Gaziantep, Turkey.
4. **Erkan Ömer**, Yücel Emre, (2017)"Statistical Evaluation Of The Machinability Of Toolox 33® Steel In The Milling Process", **International Engineering Researches Symposium**, Düzce University, Düzce, Turkey.
5. Yücel Emre, **Erkan Ömer**, (2017)" Optimization With Design Experiment Method Of The Surface Roughness In The Drilling Of The Toolox 33® Steel", **International Engineering Researches Symposium**, Düzce University, Düzce, Turkey.
6. **Erkan Ömer**, Yücel Emre, (2016),"Investigation Of The Surface Roughness Effects On Different Cutting Conditions And Parameters In The Turning Of The Aisi 630 Material", **7<sup>th</sup> International Symposium On Machining**, November 3-5, Marmara University, 514-519, Istanbul, Turkey.
7. **Erkan Ömer**, Yücel Emre, (2016), "A Model Application Of Sustainable Design: The Plastic Injection Mold", **1st International Mediterranean Science and Engineering Congress (IMSEC 2016)**, 4253-4258, Adana, Turkey.
8. **Erkan Ömer**, Yücel Emre, (2016), "Analysis Of Sustainability In Plastic Product Design", **1st International Mediterranean Science And Engineering Congress (IMSEC 2016)**, 4253-4258, Adana, Turkey.
9. **Erkan Ömer**, Göloğlu Cevdet, (2013), "Precision Evaluation of Force and Vibration Analysis in Parallel Kinematic Machine Tools Owning Different Joint Types", **7<sup>th</sup> International Advanced Technologies Symposium(IATS'13)**, 793-798, Istanbul, Turkey.
10. **Erkan Ömer**, Göloğlu Cevdet, Toz Metin, (2013), "Workspace Analysis for Stewart Platform Based Parallel Kinematic Machine Tool.", **7<sup>th</sup> International Advanced Technologies Symposium(IATS'13)**, 799-802, Istanbul, Turkey.
11. **Erkan Ömer**, Işık Birhan, (2009), "Investigation Of Cutting Parameter Effects On Surface Roughness During Machining Of Glass Fiber Reinforced Plastic Composite Material", **5<sup>th</sup> International Advanced Technologies Symposium (IATS)**, 1414-1419, Karabük, Turkey.

#### Articles Published in National Refereed Journals:

1. Takmaz Aysun, **Erkan Ömer**, Yücel Emre, (2016), "Statistical Investigation of The Effects of Cutting Parameters on Surface Roughness During the Edge Milling of Glass Fiber Reinforced Plastic Composite Material", **Düzce University Journal of Science and Technology**, Volume 4 567-573.

#### National Conference Proceedings:

1. **Erkan Ömer**, Işık Birhan, (2009), "Investigation of surface roughness affecting in different milling ways of 0/90 fiber orientation glass fiber reinforced plastic material.", **National Machining Symposium**, Yıldız Technical University, Istanbul, Turkey.

#### Books:

1. **Erkan Ömer**, Kavak Yasin, (2014) "Plastic Analysis with Autodesk Moldflow Ultimate", **Seçkin Publishing**, 130 pages, Ankara, Turkey.

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## **Awards:**

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1. Publication Promotion Award, The Scientific And Technological Research Council Of Turkey, 2013
2. Reviewer Recognition, International Measurement Confederation, Netherlands, 2016
3. Outstanding Reviewer, International Measurement Confederation, Netherlands, 2016

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## **Administrative Function:**

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2016-Present    Department Head of Mechanical Education