


**IŞIK UNIVERSITY**  
**Mechanical Engineering Department**  
**Personnel Data**

A. PERSONAL		
Title	Assist. Prof. Dr.	
Name	Umut Karagüzel	
Birth Place and Year	Adana 1985	
e-Mail / Personal Web Site	umut.karaguzel@isikun.edu.tr	
Specialization Area	Material Science, Manufacturing Processes, Modeling	
Foreign Language	English, German	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	2016	Mechanical Eng.	Istanbul Technical University
Master of Science	2010	Manufacturing Eng.	Istanbul Technical University
Bachelor of Science	2008	Mechanical Eng.	Istanbul Technical University
Associate			

C. ACADEMIC		
Title	Year	Institution
Professor		
Associate Professor		
Assistant Professor	2016-	Işık University, Mechanical Engineering
Lecturer		
Research Assistant	2009-2020	Istanbul Technical University, Mechanical Engineering

D. PROFESSIONAL EXPERIENCE	
Year	
<b>a. Domestic</b>	
2009-2016	ITU Mechanical Engineering Department Research Assistant
2014-2016	VICON Founder and R&D Director
<b>b. Abroad</b>	
2014-2015	Fraunhofer IWU Germany Guest Researcher
2015-2016	Fraunhofer IWU Germany Guest Researcher

E. ADMINISTRATIVE EXPERIENCE	
<b>a. At Işık University</b>	
<b>b. At other Institutions</b>	

F. INDUSTRIAL EXPERIENCE		
Year	Company	Title
2014-2016	VICON	VICON Ar-Ge Direktörlüğü

G. INSTRUCTED COURSES	
a. At Işık University	b. At the Other Institutions
MECH 3211 Machine Elements 1	Manufacturing Processes (Sabancı Uni.)
MECH 3222 Machine Elements 2	
MECH 4560 Advanced Manufacturing Processes	
MECH 2520 Material Science	

H. INTERESTED FIELDS
Machining, Machinability of Hard-to-Cut Materials, Temperature measurement and modelling, Modeling of manufacturing processes, Computer aided analysis

I. NUMBER OF SUPERVISED GRADUATE THESIS	
Master of Science	1
Doctorate	-

J. PUBLICATIONS						
Type	SCI-Exp International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	9	7	1	9	2	1
SCI-Exp Total Number of Citations	138					
Important Publications						
Karpas, Y., Karagüzel, U., & Bahtiyar, O. (2020). A thermo-mechanical model of drill margin-borehole surface interface contact conditions in dry drilling of thick CFRP laminates. International Journal of Machine Tools and Manufacture, 103565.						
Bakkal, M., Karagüzel, U., & Kuzu, A. T. (2019). Manufacturing Techniques of Bulk Metallic Glasses. Modern Manufacturing Processes, 137-148.						
Berenji, K. R., Karagüzel, U., Özlü, E., & Budak, E. (2019). Effects of turn-milling conditions on chip formation and surface finish. CIRP Annals, 68(1), 113-116.						
Karaguzel, U., & Budak, E. (2018). Investigating effects of milling conditions on cutting temperatures through analytical and experimental methods. Journal of Materials Processing Technology, 262, 532-540.						
Karagüzel, U., Bakkal, M., & Budak, E. (2017). Modelling thermally induced deformations on tool during turn-milling (Frezeyle tornalamada takımda ortaya çıkan termal deformasyonların modellenmesi). Journal of the Faculty of Engineering and Architecture of Gazi University, 32(3), 865-875.						
Karaguzel, U., Uysal, E., Budak, E., & Bakkal, M. (2016). Effects of tool axis offset in turn-milling process. Journal of Materials Processing Technology, 231, 239-247.						

**K. RESEARCH EXPERIENCE**

Number of Projects	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
As Supervisor				1		
As Researcher		1				

**L. REFEREEING**

	SCI-Exp Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers	~70					2	6	

**M. INTELLECTUAL PROPERTIES**

Patents #	Utility Models #	Industrial Designs #	Other # (.....)

**N. PROFESSIONAL ASSOCIATION MEMBERSHIPS**

TMMOB
CIRP Research Affiliate 2016-2019