IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data Form

A. PERSONAL		
Title	Assoc. Prof. Dr. (Part-Time)	
Name	Umut KARAGÜZEL	
Birth Place / Year	Adana / 1985	
e-Mail / Personal Web Site	Umut.karaguzel@isikun.edu.tr	
Working Field(s)	Manufacturing, Materials, Mechanics	
Foreign Language(s)	English	

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

C. ACADEMIC		
Title	**Year**	**Institution**
Professor	-	-
Associate Professor	2023 -	Yıldız Technical University
Associate Professor	2022-2023	Işık University
Assistant Professor	2016-2022	Işık University
Lecturer	-	-
Research Assistant	2009-2016	Istanbul Technical University

D. PROFESSIONAL EXPERIENCE	
a. Domestic	
2023-	Yıldız Technical University
2016-2023	Işık University
2009-2016	Istanbul Technical University
2014-	VICON
b. Abroad	
2015	IWU Fraunhofer Institute Germany
2014	IWU Fraunhofer Institute Germany

E. ADMINISTRATIVE EXPERIENCE	
a. At Işık University	
b. At Other Institutions/Companies	

F. INTERESTED SUBJECTS
Manufacturing
Mechanics
Digital Twins

G. INSTRUCTED COURSES	
a. At Işık University	**b. At Other Institutions**
Machine Design	Strength of Materials
Material Science	Machine Elements
Manufacturing Processes	Material Science

H. NUMBER OF SUPERVISED GRADUATE THESIS	
Master of Science	2
Doctorate	-

I. PUBLICATIONS

Type	SCI-Expanded International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	14	10	2	5	-	2
SCI-Expanded Total Number of Citations	757					

Important Publications

Shariar, F., **Karagüzel, U.,** & Karpat, Y. (2025). A hybrid model to analyze stress distributions at the tool and workpiece interface during drilling of thick cfrp laminates considering thermal effects. *The International Journal of Advanced Manufacturing Technology*, 1-20.

Shariar, F., **Karagüzel, U.,** & Karpat, Y. (2024). Heat partition evaluation during dry drilling of thick CFRP laminates with polycrystalline diamond drills. *Manufacturing Letters*, *41*, 483-493.

Kayihan, M., **Karaguzel, U.,** & Bakkal, M. (2024). Process design and experimental study on drilling operations of a hybrid aluminum/carbon fiber reinforced polymer/titanium composite. Materials and Manufacturing Processes, 1-8.

Karaguzel, U. (2021). Transient multi-domain thermal modeling of interrupted cutting with coated tools. The International Journal of Advanced Manufacturing Technology, 1-17. https://doi.org/10.1007/s00170-021-07388-6

Kuzu, A. T., **Karaguzel, U.,** Erbay, B., & Bakkal, M. (2021). Effect of scanning strategies and laser parameters on metal-composite joining. Materials and Manufacturing Processes, 1-9. https://doi.org/10.1080/10426914.2021.1905827

J. RESEARCH EXPERIENCE

Number of Projects	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
As Supervisor				2		
As Researcher		3				5

K. REFERREING								
Type	SCI Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers	150				1		30	

L. INTELLECTUAL PROPERTIES			
Patents	Utility Models	Industrial Designs	Other

M. PROFFESIONAL ASSOCIATION MEMBERSHIPS

N. OTHER USEFUL INFORMATION (if any)