

Curriculum Vitae



Personal Information

Surname	Rafighi
Name	Mohammad
Date and Place of Birth	1988 - Tabriz
Nationality	Iranian
Marital status	Single
Address	University of Turkish Aeronautical Association / Bahçekapi Quarter / Okul St. / No:11 / 06790 / Office No:173 / Etimesgut / Ankara / Turkey
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Educational Background

Degree	Field of Specialization	GPA	Name of Institution	Date
Ph.D.	Manufacturing Engineering	4.00/4.00	Department of Manufacturing Engineering, Gazi University, Ankara, Turkey	2014-2018
Ph.D. (Erasmus)	Mechanical Engineering	---	Department of Aero Engine Design, Brandenburg University of Technology, Cottbus, Germany	Jun-Aug 2017
Ph.D. (Erasmus)	Mechanical Engineering	---	Department of Mechanical Engineering, University of Perugia, Italy	Jun-Sep 2014
M.Sc.	Mechanical Education	3.64/4.00	Department of Manufacturing Engineering, Gazi University, Ankara, Turkey	2011-2013
B.Sc.	Mechanical Engineering	2.92/4.00	Department of Mechanical Engineering, Islamic Azad University of Tabriz, Iran	2006-2010

Certifications

GRE	Quantitative: 157 (ALES Equivalence = 83)
Language	YÖKDİL: 87.50 IELTS: 6.0 TÖMER: C2

Research Interests

1	Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), Machinability, Cutting Tools, Finite Element Analysis (FEA)
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Publications

1	Şahinoğlu, A. and Rafighi, M. "Investigation of vibration, sound intensity, machine current and surface roughness values of AISI 4140 during machining on the lathe", Arabian Journal For Science And Engineering , 45 (2), pp. 765–778, (2020). DOI: 10.1007/s13369-019-04124-x.
2	Şahinoğlu, A. and Rafighi, M. "Optimization of cutting parameters with respect to roughness for machining of hardened AISI 1040 steel", Materials Testing , 62 (1), pp. 85-95, (2020). DOI: 10.3139/120.111458
3	Salimiasl, A., Erdem, A. and Rafighi, M. "Applying a multi sensor system to predict and simulate the tool wear using of artificial neural networks", Scientia Iranica Journal , 24 (6), pp. 2864-2874, (2017). DOI: 10.24200/sci.2017.4247
4	Rafighi, M., and Güllü, A., "Design of a novel walking assistance device for people with walking disabilities", International Journal of Engineering & Technology , 6(4), pp. 191-194, (2017). DOI: 10.14419/ijet.v6i4.8656
5	Salimiasl, A., and Rafighi, M., "Vibration and cutting force based tool wear monitoring and estimating via by fuzzy logic", Journal of Polytechnic Gazi , 20 (1), pp. 111-120, (2017).
6	Salimiasl, A., and Rafighi, M., "Investigation of Recent Developments in Tool Condition Monitoring during Machining Operations", Düzce University Institute of Science and Technology , 5 (1), pp. 314-337, (2017).
7	Rafighi, M., and Güllü, A., "The design, analysis and manufacturing a supportive device to walking disabled people", 10th international conference on mechatronic systems and materials, (MSM 2014) , pp. 87-95, (2014).
8	Şahinoğlu, A. and Rafighi, M. "Investigation of the relationship between temperature, sound intensity and surface roughness related to tool wear during turning of hardened AISI 4340 material", Energy And Environmental Studies For The Near Future, Akademisyen Kitabevi , pp. 65-79, (2019).

Ph.D. Thesis title (Supervisor: Prof. Dr. Abdulkadir Güllü)

Design and prototype manufacturing of automatic orthognathic surgery articulator with five degree of freedom

M.Sc. Thesis title (Supervisor: Prof. Dr. Abdulkadir Güllü)

The design and manufacturing a supportive device to walking of disabled people

Patent (pending)

Automatic Articulator (Application No: 2018/07478, Application date: 06/05/2018)

Honors

1	Ranked 1st at the Technology Faculty of Gazi University (Ph.D. GPA)
2	Ranked 5th in third Business Idea Competition in Gazi University.
3	Ranked 2nd in the Mechanical Education Department of Gazi University (M.Sc. GPA)
4	Selected as an Erasmus+ student to participate in 3 months internship in Italy (University of Perugia)
5	Selected as an Erasmus+ student to participate in 2 months internship in Germany (Brandenburg University of Technology)

Work experiences

No	Name of firm/University	Type of Business	Date
1	University of Turkish Aeronautical Association	Mechanical Engineering Department (Assistant. Prof. Dr.)	09/2018-.....
2	Gazi University, Ankara, Turkey	(Teaching Assistant) in SolidWorks, AutoCAD and CNC courses (Not Official)	02/2014-06/2018
3	Brandenburg University of Technology, Cottbus, Germany	Rolls-Royce jet engine design project (Erasmus R&D researcher)	06/2017-08/2017
4	Perugia University, Perugia, Italy	(Erasmus R&D researcher)	06/2014-09/2014
5	Tractorsazi Factory, Tabriz, Iran	Designing and analysis of solid parts of tractor and car (Stager)	09/2008-09/2009

Personal skills and competencies

Languages	English	Turkish	Persian	Azerbaijani
Reading	Very good	Fluent	Fluent	Fluent
Writing	Very good	Fluent	Fluent	Fluent
Speaking	Very good	Fluent	Fluent	Fluent
Listening	Very good	Fluent	Fluent	Fluent
Projects	<p>BAP Project: Project No: 07/2012-14, Position in Project: Researcher Name of project: “The design and manufacturing a dual axis supportive device to walking for adult disabled people” Budgets: 12000 TL</p> <p>BAP Project: Project No: 07/2017-07, Position in Project: Researcher Name of project: “Design and manufacture of the five degree of freedom automatic orthognathic surgery articulator” Budgets: 25000 TL</p>			
Technical skills	Solid Works, CATIA, Microsoft Office, MiniTab, Swansoft (Very Good) NX, ANSYS, MATLAB, C# (Beginning)			
Artistic skills	Reading, Walking, Swimming, Music, Football, Badminton			

References

1	Prof. Dr. Abdulkadir Güllü , Department of Manufacturing Engineering, Gazi University, Ankara, Turkey (+90 536 255 06 33). agullu@gazi.edur.tr
2	Prof. Dr. Ahmet Özdemir , Department of Manufacturing Engineering, Gazi University, Ankara, Turkey (+90 532 542 87 37). ahmetoz@gazi.edu.tr
3	Prof. Dr. Ulvi Şeker , Department of Manufacturing Engineering, Gazi University, Ankara, Turkey (+90 532 284 50 83). useker@gazi.edu.tr
4	Prof. Dr.-Ing. Klaus Hoeschler , Head of Mechanical Engineering, Brandenburg Technical University, Cottbus, Germany (+49 355 69 4332). klaus.hoeschler@b-tu.de