Rahim JAFARI, Ph.D.
Assistant Professor
Atılım University
Department of Automotive Engineering
06830 İncek, Gölbaşı, Ankara/TURKEY
name.surname@atilim.edu.tr
Tel: +90 312 586 8761

PERSONAL

Date of Birth	1979
Place of Birth	Tebriz

EDUCATION

2009-2015	Middle East Technical University, Mechanical Engineering, Ph.D.
2001-2004	Urmia University, Manufacturing Engineering, M.S.
1996-2001	University of Tabriz, Manufacturing Engineering, B.S.

ACADEMIC POSITIONS

May/2016	AssistantProfessor, Department of Automotive Engineering, Atilim University, Turkey
2015-2016	Instructor, Department of Mechanical Engineering University of Turkish Aeronautical Assiciation, Turkey

HONORS&AWARDS

1	Awarded Thesis of Year 2015 by METU Mustafa Parlar Education and Research Foundation

RESEARCH INTERESTS

1	Heat Transfer, Two-phase flow, microchannel heat sinks, Lithium battery thermal management, hybrid PV-thermal solar panels

PROFESSIONAL SERVICE

PUBLICATIONS

1	**Rahim Jafari**, Müge Kahya, Samad Nadimi, Özgür Hakkı Ünver, Tuba Okutucu-Özyurt (2017), Modeling and analysis of surface roughness of microchannels produced by µ-WEDM using an ANN and Taguchi method, *Journal of Mechanical Science and Technology*, 31(11), 5447-5457
2	**Rahim Jafari**, Tuba Okutucu-Özyurt, Hakkı Özgür Ünver, Özgür Bayer (2016), Experimental Investigation of Surface Roughness Effects on the Flow Boiling of R134a Refrigerant in Microchannels, *Experimental Thermal and Fluid Science* 79, 222-230

3	**Rahim Jafari**, Tuba Okutucu-Özyurt (2016), Numerical Simulation of Flow Boiling from an Artificial Cavity in A Microchannel, *International Journal of Heat and Mass Transfer* 97, 270-278
4	**Rahim Jafari**, Tuba Okutucu-Özyurt (2015), 3D Numerical Modeling of Boiling in a Microchannel by Arbitrary Lagrangian- Eulerian (ALE) Method, *Applied Mathematics and Computation* 272, 593–603
5	**Rahim Jafari**, Tuba Okutucu-Özyurt (2015), Phase Field Modeling of a Vapor Bubble Growth in a Microchannel, Journal of Computational Multiphase Flows7(3), 143-158
6	Aziz Koyuncuoğlu, **Rahim Jafari**, Tuba Okutucu-Özyurt, Haluk Külah (2012), Heat transfer and pressure drop experiments on CMOS compatible microchannel heat sinks for monolithic chip cooling applications, *International Journal of Thermal Sciences* 56, 77-85
7	Samad Nadimi, **Rahim Jafari** Khoushehmehr, Babak Rohani, Amir Mostafapour (2008), Investigation and Analysis of Weld Induced Residual stresses in Two Dissimilar Pipes by Finite Element Modeling, *Journal of Applied Sciences* 8 (6), 1014-1020

PROJECTS

1	The numerical-experimental scheme for thermal analysis of automotive disc brake
2	The numerical and experimental analysis of thermal management of lithium-ion battery for EVs

CONFERENCE PRESENTATIONS

1	**Rahim Jafari**, Simulation of R134a flow boiling in microchannels, *5th micro and nano flows conference*, Milan, Italy, 11-14 September 2016
2	**Rahim Jafari**, Tuba Okutucu-Özyurt, CFD Modeling of Boiling in a Microchannel Based On Phase-Field Method, World Academy of Science, Engineering and Technology Conference, Paris, France, April 2015, *Proceeding International Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering* 9(4), 572-576
3	*Müge Kahya, Hakki Özgür Unver,* ***Rahim Jafari*** *and Tuba Okutucu-Özyurt, Process Optimization of Micro-WEDM for Micro Channel Manufacturing Using Taguchi Methodology, The International Conference on Flexible Automation and Intelligent Manufacturing (FAIM), Wolverhampton, UK, 23-26 June 2015*
4	**Rahim Jafari**, Tuba Okutucu-Özyurt, The Arbitrary Lagrangian-Eulerian (ALE) Modeling of a Vapor Bubble Growth in a Microtube, International Conference of Numerical Analysis and Applied Mathematics, Rhodes, Greece, September 2014, *American Institute of Physics (AIP) Conference Proceedings DOI:10.1063/1.4912346*

5	**Rahim Jafari**, Aziz Koyuncuoğlu, Tuba Okutucu-Özyurt, Haluk Külah, Heat transfer enhancement with nanofluids in CMOS compatible microchannel heat sinks, 8. *Turkey Nanoscience and Nanotechnology Conference,* s.0199, OP-1,2012
6	Tuba Okutucu-Özyurt, Haluk Külah, Aziz Koyuncuoğlu, **Rahim Jafari**, Heat transfer enhancement with nanofluids in CMOS compatible microchannel heat sinks, *2nd Annual World Congress of Nanoscience and Nanotechnology Conference*, Qingdao, China, 26-28 October 2012

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	65
H-index (ISI Web of Science):	4

COURSES GIVEN

1	Thermodynamics I, Heat Transfer, Fuels and Combustion, Vehicle Aerodynamics, Automobile Lab I,