



Name	Hamdi Emaduldeen Ahmed Hamdi
Academic degree	PhD in Mechanical Engineering.
Date of birth	1980
Nationality	Iraqi
Social status	Married
Current address	Department of Mechanical Engineering, College of Engineering, University of Anbar, Ramadi 31001, Anbar, Iraq.
E-mail:	hamdi.ahmed@uoanbar.edu.iq hamdie.engi@gmail.com
Hand phone	009647717420420
Languages	Arabic. Kurdish. English.
Academic qualifications	<ol style="list-style-type: none">1. Post-doctoral researcher, International Islamic University Malaysia, Sept. 2014 – April 2015.2. Ph.D in Mechanical Engineering, Universiti Tenaga Nasional, Malaysia, 2014.3. M.Sc in Mechanical Engineering, University of Anbar, Iraq, 2005.4. B.Sc in Mechanical Engineering, University of Anbar, Iraq, 2002.

Working experience	<p>Sept. 2014–April 2015, Post-doctoral researcher, International Islamic University Malaysia.</p> <p>January 2011–May 2011, Instructor, Universiti Tenaga Nasional, Malaysia.</p> <p>February 2006–current/ lecturer–University of Anbar, Iraq.</p>
Workshops	<ol style="list-style-type: none"> 1. The Arts and Skills of Managing International Scientific Journals, Dr. Ashraf M. Zedan from UM and Dr. Ayad from Limkingwing University, Filspay Academy Center, Malaysia, 3rd Feb 2015. 2. Thesis Writing and Publication in International Journals, Prof. Dr. Saad Mekhilef from UM, Filspay Academy Center, Malaysia, 18 hours, 17–18 Jan 2015. 3. Academic Writing Skills, Dr. Aws Alaa and Dr. Bilal Bahaa from UM, Filspay Academy Center, Malaysia, 30 hours of instruction, 9th Feb 2014. 4. High Skills for Organizing and Formatting Thesis, Filspay Academy Center, Malaysia, 25–26 Jan 2014. 5. Thesis Preparation Using LATEX Workshop, center of Academic and Personal Success, College of Graduate studies, Universiti Tenaga Nasional, 21st Dec 2012. 6. Thesis writing workshop, Teaching and Learning Center, Institute of Liberal Studies, Universiti Tenaga Nasional, 30th July 2010. 7. Teaching Methods, 92 hours, Lebanese French University, Erbil, Iraq, 23 Aug – 22 Sept 2015.
Supervision	<p>Master student, Universiti Tenaga Nasional, Malaysia (Co-supervisor).</p> <p>Master student, UM, Malaysia (Co-supervisor).</p> <p>Master student, IIUM, Malaysia (Advisor).</p> <p>PhD student, IIUM, Malaysia (Co-supervisor).</p>

	PhD student, UTM, Malaysia (Advisor).
Courses taught	Thermodynamics, Fluid Mechanics, Gas dynamics, Heat Transfer, Numerical Analysis, Engineering Analysis, Mathematics, CFD, Familiar in ANSYS software, Engineering Matlab, AutoCAD, Mechanical and Engineering Drawing.
Publications	<ol style="list-style-type: none"> 1. Hamdi E. Ahmed, Mirghani I. Ahmed, Thermal performance of annulus with its applications; A review, Renewable and Sustainable Energy Reviews, 71 (2017) 170–190. 2. Hamdi E. Ahmed, M.Z. Yusoff, M.N.A. Hawlader, M.I. Ahmed, B.H. Salman, A.Sh. Kerbeet, Turbulent heat transfer and nanofluid flow in a triangular duct with vortex generators, International Journal of Heat and Mass Transfer 105 (2017) 495–504. 3. A. Sh. Kherbeet, H.A. Mohammed, Hamdi E. Ahmed, B.H. Salmand, Omer A. Alawi, Mohammad Reza Safaei, M.T. Khazaal, Mixed convection nanofluid flow over microscale forward-facing step–Effect of inclination and step heights, International Communications in Heat and Mass Transfer 78 (2016) 145–154. 4. Hamdi E. Ahmed, Bassam H. Salman, Akeel Kh. Shebeeb, A review on Optimization of Thermal Design of Heat Sinks, (under review). 5. Hamdi E. Ahmed, Optimization of thermal design of ribbed flat-plate fin heat sink, Applied Thermal Engineering 102 (2016) 1422–1432. 6. A.Sh. Kherbeet, Mohammad R. Safaei, H.A. Mohammed, B.H. Salman, Hamdi E. Ahmed, et al., Heat transfer and fluid flow over microscale backward and forward facing step: A review, International Communications in Heat and Mass Transfer 76 (2016) 237–244. 7. B.H. Salman, H. A. Mohammed, A. SH. Kherbeet Hamdi E. Ahmed, The effect of geometrical parameters on enhancing the heat transfer inside a microtube, International Journal of Heat and Technology 33(3) (2015) 79–84. 8. A.Sh. Kherbeet, H.A. Mohammed, B.H. Salman, Hamdi E. Ahmed,

	<p>Omer A. Alawi, M.M. Rashidi, (2015). Experimental study of nanofluid flow and heat transfer over microscale backward- and forward-facing steps. <i>Experimental Thermal and Fluid Science</i> 65, 13–21.</p> <p>9. Hamdi E. Ahmed, M. Z. Yusoff, M.N.A. Hawlader, M.I. Ahmed, (2015). Turbulent Two-Phase Model and Heat Transfer in a Triangular Duct: Effect of Nanofluids and Vortex Generators. <i>Journal of Heat and Mass Transfer</i>, (accepted).</p> <p>10. Hamdi E. Ahmed, Mirghani I. Ahmed, (2015). Optimum Thermal Design of Triangular, Trapezoidal and Rectangular Grooved Microchannels Heat Sinks, <i>International Communication in Heat and Mass transfer</i>, 66 (2015) 47–57.</p> <p>11. Hamdi E. Ahmed, M.I. Ahmed, (2015). Thermal Performance of Annulus with its Applications; A review. <i>Renewable and Sustainable Energy Reviews</i>, Volume 71, May 2017, Pages 170–190.</p> <p>12. Hamdi E. Ahmed, M.I. Ahmed, A.Sh. Kherbeet, (2015). Effect of Geometrical Parameters of Different Turbulators on the Cooling of Micro-Scale Backward-Facing Step, <i>Journal of Heat Transfer Research</i>, (under review).</p> <p>13. Hamdi E. Ahmed, M.Z. Yusoff, M.N.A. Hawlader, M.I. Ahmed, (2014). Numerical Analysis of Heat Transfer and Nanofluid Flow in a Triangular Duct with Vortex Generator: Two-Phase Model, <i>Heat Transfer–Asian Research</i>, Sept 10, 2014, DOI: 10.1002/htj.21163, 21.</p> <p>14. A.Sh. Kherbeet, H.A. Mohammed, B.H. Salman, Hamdi E. Ahmed, O.A. Alawi, (2014). Experimental and numerical study of nanofluid flow and heat transfer over microscale backward-facing step, <i>International Journal of Heat and Mass Transfer</i> 79, 858–867.</p> <p>15. Hamdi E. Ahmed, Yusoff, M.Z. (2013). Impact of delta-winglet pair of vortex generators on the thermal and hydraulic performance of a triangular channel using Al₂O₃–water nanofluid. (ASME) <i>Journal of Heat Transfer</i>, DOI: 10.1115/1.4025434, 136 (Feb. 2014) 021901-1–</p>
--	--

9.

16. **Hamdi E. Ahmed**, M.Z. Yusoff, N.H. Saeid, (2013). Thermal Enhancement of Triangular Ducts Using Compound of Vortex Generators and Nanofluid. *Journal of Heat Transfer Engineering*, (accepted).
17. **Hamdi E. Ahmed**, M.Z. Yusoff, M.N.A. Hawlader, M.I. Ahmed, (2015). Experimental Study of Heat Transfer Augmentation in a Triangular Duct Using Combined Nanofluids and Vortex Generator. *International Journal of Heat and Mass Transfer*, 90 (2015) 1197–1206.
18. **Hamdi E. Ahmed**, M.Z. Yusoff, M.N.A. Hawlader, M.I. Ahmed, (2015). Heat Transfer Enhancement in a Triangular Duct using Compound Nanofluids and Turbulators. *Applied Thermal Engineering*, (accepted).
19. **Hamdi E. Ahmed**, M.Z. Yusoff, M.N.A. Hawlader, M.I. Ahmed, (2015). Numerical and Experimental Comparative study on Turbulent Nanofluids Flow and Heat Transfer in a Ribbed Triangular Duct. *Experimental Heat Transfer*, (under review).
20. **Ahmed, H.E.**, Mohammed, H.A., Yusoff, M.Z. (2012). Heat transfer enhancement of laminar nanofluids flow in a triangular duct using vortex generator. *Superlattices and Microstructures*, 52, 398-415.
21. **Ahmed, H.E.**, Mohammed, H.A., Yusoff, M.Z. (2012). An overview on heat transfer augmentation using vortex generators and nanofluids: Approaches and applications. *Renewable and Sustainable Energy Reviews*, 16, 5951-5993.
22. M.A. Althaher, A.A. Abdul-Rassol, **Hamdi E. Ahmed**, H.A. Mohammed, (2012). Turbulent Heat Transfer Enhancement in a Triangular Duct Using Delta-Winglet Vortex Generators, *Heat Transfer—Asian Research*, 41 (1) 43-62.
23. **Hamdi E. Ahmed**, (2010). Influence of Semi-Tube Orientation on Combined Free and Forced Laminar Convection Heat Transfer, *Al-*

	<p>Qadisiya Journal for Engineering Sciences, 3(2) 103-120.</p> <p>24. Hamdi E. A. Zangana, (2008). Effect of Vortex Generators on a Friction Factor in an Equilateral Triangular Duct, Anbar Journal for Engineering Sciences, 1(2) 78-86.</p> <p>25. Mohanad A.Al-Taher, Adnan A. Abdul-Rassol, Hamdi E. Zangana, (2007). Effect of Delta-Winglet Vortex Generators on a Forced Convection Heat Transfer in an Asymmetrically Heated Triangular Duct, Anbar Journal for Engineering Sciences, 31-44.</p>
Google scholar link	https://scholar.google.com/citations?hl=en&user=8kvOaUIAAAJ
Reviewer in:	<ol style="list-style-type: none"> 1. British Journal of Applied Science & Technology. 2. International Journal of Heat and Mass Transfer. 3. Basic Research Journal of Engineering Innovation. 4. Journal of Institution of Engineers (India) Series C. 5. International Journal of Engineering Science and Technology. 6. Academic Journals: Scientific Research and Essays. 7. International Journal of the Physical Sciences. 8. Experimental Heat Transfer.