CURRICULUM VITAE

NAME	Dr. Mohd Afendi Bin Rojan
ADDRESS (HOME)	26, Jalan Tiga, Taman Pauh Indah, 02600 Arau, Perlis
ADDRESS (OFFICE)	School of Mechatronic Engineering, Universiti Malaysia Perlis, Pauh Putra Campus, 02600 Arau, Perlis
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WEBSITE	www.afendirojan.wordpress.com
AGE	33
GENDER	Male
NATIONALITY	Malaysia
MARITAL STATUS	Married
DATE OF BIRTH	9 July 1981
IC NO.	810709-03-5003

EDUCATIONAL BACKGROUND

DATE	April 2008 ~ June 2011
INSTITUTE	Graduate School of Systems and Information Engineering, University of Tsukuba, Japan
FIELD OF STUDY	Engineering of Mechanics & Energy
LEVEL	PhD (Doctor of Philosophy of Engineering)
DATE	April 2006 ~ March 2008
INSTITUTE	Graduate School of Systems and Information Engineering, University of Tsukuba, Japan
FIELD OF STUDY	Engineering of Mechanics & Energy
LEVEL	Master's Degree (Master of Engineering)
DATE	April 2001 ~ March 2006
INSTITUTE	Faculty of Engineering System, University of Tsukuba, Japan
FIELD OF STUDY	Engineering Systems (Energy)
LEVEL	Bachelor's Degree (Bachelor of Engineering)

PROFESSIONAL EXPERIENCES

2011 ~	Senior Lecturer, Mechanical Engineering Program Chair

	School of Mechatronic Engineering, Universiti Malaysia Perlis
2007~2011	Fellow
	School of Mechatronic Engineering, Universiti Malaysia Perlis

PUBLICATIONS

1. **Mohd Afendi**, Effect of Bond Thickness, LAP GmbH & Co. KG (ISBN 978-3-8465-1631-7), 2012.
2. MM Khalil, AB Shahriman, Khairunizam Wan, MR Zuradzman, **Mohd Afendi**, EM Cheng, NB Shafriza, SK Zaaba, Development of gate opening decision support for Arau Canal water level control. Australian Journal of Basic & Applied Sciences 8 (4), 2014.
3. ML Norzan, AB Shahriman, BMT Shamsul, BM Deros, AS Rambely, Khairunizam Wan, YG Ng,**Mohd Afendi**, EM Cheng, NB Shafriza, SK Zaaba, Overcoming Issues of Oil Palm Plantations Manual Work with Ergonomic and Engineering Considerations. Australian Journal of Basic & Applied Sciences 8 (4), 2014.
4. MM Khalil, AB Shahriman, Khairunizam Wan, MR Zuradzman, **Mohd Afendi**, EM Cheng, NB Shafriza, SK Zaaba, Study of Northern Malaysia Canal monitoring and effect of automatic gate control system. Australian Journal of Basic & Applied Sciences 8 (4), 2014.
5. Abu Bakar Shahriman, Siti Khadijah, Wan Khairunizam, Wan Ahmad, Syed Waseem Ahmad Sharifah Roohi, Desa Hazry, Abdul Karim Ahmad Helmy, Shafriza Nisha, Ee Meng Cheng,**Mohd Afendi**, CFD Analysis on Mismatched End-to-end Internal Diameter of RSVG Models. American-Eurasian Network for Scientific Information (AENSI), 2014.
6. Long Lee Hoi, Abu Bakar Shahriman, Yaacob Sazali, Mohamad Razlan Zuradzman, Wan Khairunizam, Wan Ahmad, IB Zunaidi, Ee Meng Cheng, Siti Khadijah, Shafriza Nisha, **Mohd Afendi**, Syed Waseem Ahmad Sharifah Roohi, In vitro evaluation of finger's hemodynamics for vein graft surveillance using electrical bio-impedance method. American-Eurasian Network for Scientific Information (AENSI), 2014.
7. M.S. Abdul Majid, **M. Afendi**, R. Daud, A.G. Gibson, T.A. Assaleh, J.M. Hale & M. Hekman, Acoustic Emission Monitoring of Multiaxial Ultimate Elastic Wall Stress Tests of Glass Fibre-reinforced Epoxy Composite Pipes. Advanced Composite Materials. DOI**:**10.1080/09243046.2013.871175. JCR, IF (2012):0.358.
8. **Mohd Afendi**, Nur Athirah, M.S. Abdul Majid, R. Daud and Tokuo Teramoto, Experimental and Numerical Investigation of V-Shaped Epoxy Adhesive Joint. *Journal of Mechanical Engineering & Sciences (JMES).* 2013. DOAJ Indexed. Accepted for publication.
9. M.S. Abdul Majid, R. Daud, **M. Afendi**, E.M. Cheng, A.G. Gibson and M. Hekman. Stress-Strain Response Modelling of Glass Fibre Reinforced Epoxy Composite Pipes under Multiaxial Loadings. *Journal of Mechanical Engineering & Sciences (JMES).* 2013. DOAJ Indexed. Accepted for publication.
10. R. Daud, M.S. Abdul Majid , **M. Afendi**, A.K. Ariffin, S. Abdullah. Investigation of Elastic Stress Shielding Damage Interaction Based on Fitness For Service (FFS) Codes. *Journal of Mechanical Engineering & Sciences (JMES).* 2013. DOAJ Indexed. Accepted for publication.

11. **Mohd Afendi**, M.S. Abdul Majid, Ruslizam Daud, A. Abdul Rahman and Tokuo Teramoto, Strength Prediction and Reliability of Brittle Epoxy Adhesively Bonded Dissimilar Joint,*International Journal of Adhesion and Adhesives,* **45**, pp. 21-31, 2013. JCR, IF: 1.928 (5Y).
12. **Mohd Afendi**, Tokuo Teramoto and Ruslizam Daud, Prediction of Strength and Failure for Brittle Epoxy Adhesive Joints of Dissimilar Adherends, *Journal of the Japanese Society for Experimental Mechanics*, **11**, pp. 181-186, 2011. ISSN: 1346-4930.
13. **Mohd Afendi**, Tokuo Teramoto and Hairul Bin Bakri, Strength Prediction of Epoxy Adhesively Bonded Scarf Joints of Dissimilar Adherends, *International Journal of Adhesion and Adhesives,* **31**, pp. 402-411, 2011. JCR, IF: 1.928 (5Y).
14. **Mohd Afendi** and Tokuo Teramoto, Fracture Toughness Test of Epoxy Adhesive Dissimilar Joint with Various Adhesive Thicknesses, *Journal of Solid Mechanics and Materials Engineering (JSME)*, **4** (7), pp. 999-1010, 2010. ISSN: 1880-9871.
15. **Mohd Afendi** and Tokuo Teramoto, Effect of Bond Thickness on Fracture Behavior of Interfacial Crack in Epoxy Adhesive Joint of Dissimilar Materials, *Journal of The Adhesion Society of Japan* , **45** (12), pp. 471-477, 2009. ISSN**:** 0916-4812.

POSTGRADUATES SUPERVISION

No.	Name	Programme	Title	Academic Session	Status	Supervisor
1.	Mohd Mizan Bin Yob	MSc	Crashworthiness of an Energy Absorbing Structure	2013/2014	On-going	Co-
2.	Nurul Atikah Binti Datu Derin	MSc	Heat Treatment Effect on Strength of Adhesive Joint	2013/2014	On-going	Main
3.	Nor Bakyah Binti Abu	MSc	Effects of Bond Thickness on Interfacial Fracture Toughness of T-Joints in Fluidization Bed	2013/2014	On-going	Main
4.	Muhammad Haameem Bin Jameel Ahamed	MSc	Mechanical Properties Characterization Of A Novel Napier Grass Fibre Reinforced Epoxy Composites Laminates	2013/2014	On-going	Co-
5	Hawa Binti Ahmad	MSc	Effects Of Aging On Ultimate Elastic Wall Stress (UEWS) Test Of Glass Fibre Reinforced Epoxy (GFRE) Pipes Subjected To Impact Loading	2013/2014	On-going	Co-
6.	Siti Nurhashima Binti Mohd Isa	MSc	Humidity Effects On The Mechanical Characterization Of	2013/2014	On-going	Main

			Adhesive T-Joint In Fluidization Bed			
7.	Izzawati Binti Basirom	MSc	Mechanical Characterization Of Adhesive T-Joint In Fluidization Bed At Elevated Temperatures	2013/2014	On-going	Main
8.	Mohd Faizi Bin Baharudin	MSc	Mechanical Characterization Of Adhesive T-Joint In Fluidization Bed At Elevated Temperatures	2013/2014	On-going	Main
9.	Azri Hafizi Bin Adnan	MSc	Mechanical Characterization of Adhesive T-Joint In Fluidization Bed At Elevated Temperatures	2013/2014	On-going	Co-
10.	Muhammad Azrie Husainy bin Mohd Jasri	MSc	Mechanical Properties and Fracture of Friction Stir Welded Aluminium Alloy 5083	2013/2014	On-going	Main
11.	Prenesh Krishnan	PhD	Design and Development of a Performance Monitoring System for Composite Pipes Under Multiaxial Loadings	2012/2013	On-going	Co-
12.	Ku Hafizan Bin Ku Bahaudin	MSc	Durability & Microwave Non-destructive Evaluation of Composite/Aluminum Hybrid Joints for Light-weight Automotive Structures.	2012/2013	On-going	Main
13.	Nur Athirah Binti Mat Nawi	MSc	Closed-form Solutions and Stress Analysis of Adhesively Bonded Dissimilar Joint	2012/2013	On-going	Main
14.	Abdullah Bin Abdul Rahman	MSc/PhD	Adhesive Bonding of Urea Granulator Fluidization Bed	2011/2012	On-going	Main
15.	Masniezam Bin Ahmad	MSc	An Energy Absorption Characterization of Improved Thin-walled Tube Under Dynamic Impact Loading	2011/2012	Completed	Co-

AWARDS

2013

- Gold medal: Prototype of Compact Micro-flexural Fatigue Testing Machine, UniMAP 2013 Invention & Research Expo.
- Gold medal: New Adhesive from Recycle Polystyrene, UniMAP 2013

Invention & Research Expo.

- Silver medal: i-Harvester: Cost Effective and No More Back Pain, an Initiative to Ensure Food Security by Ease and Efficiency, Malaysia Technology Expo 2013
- Bronze medal: Prototype of Compact Micro-flexural Testing Machine, i-ENVEX 2013

2012

- Anugerah Kecemerlangan Penyelidikan 2012: Intelligent Irrigation and Flood Management System Using renewable Hybrid Powered and Wireless Control System.
- Bronze medal: Intelligent Irrigation and Flood Management System Using renewable Hybrid Powered and Wireless Control System, Malaysia Technology Expo 2012.
- Silver medal: Prototype of Compact Micro-flexural Testing Machine, UniMAP 2012 Invention & Research Expo.

TEACHING

1. 2013/2014 Academic Session
   - ENT 347/3 Finite Element Methods (FEM)
2. 2012/2013 Academic Session
   - ENT 347/3 Finite Element Methods (FEM)
   - ENT 144/2 Machining Skills
3. 2011/2012 Academic Session
   - ENT 352/3 Computer Aided Engineering Design (CAED)
   - ENT 467/3 Finite Element Analysis (FEA)

CONSULTATION AND SERVICES

2013 Internal Examiner (PhD): Riyadh Azzawi Badr, *Study the Effect of Surface Roughness on the Friction Coefficient and Wear between the Surfaces Sliding*.

2011 External Examiner for *Bengkel Pemasangan dan Penilaian Soalan Peperiksaan Akhir Bagi Jabatan Kejuruteraan Mekanikal Tahap 1, Tahap 2 & Tahap 3 Politeknik, MOHE,* June 2011.

2011-2013 External Examiner for *Penaksiran Program Jabatan Politeknik, MOHE*.