



MOHD HAFIZI BIN ZOHARI

B.Eng (UKM), M.Eng (UKM), Ph.D (USQ)

Senior Lecturer, Research Fellow
Advanced Structural Integrity and Vibration Research, Faculty of Mechanical Engineering
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Academic Qualifications

- Ph.D. Mechanical Engineering, University of Southern Queensland, Australia, 2014.
- M.Eng. (Mechanical Engineering), Uiversiti Kebangsaan Malaysia, 2008.
- B.Eng. (Hons) Mechanical Engineering, Universiti Kebangsaan Malaysia, 2005.

Executive Summary

Mohd Hafizi Bin Zohari is senior lecturer and research fellow of Advance Structural Integrity and Vibration Research (ASIVR) Group at Faculty of Mechanical Engineering, University Malaysia Pahang (UMP). After his first degree in 2005, he works at Perodua Manufacturing Sdn. Bhd (PMSB) for about a year as Production Engineer. He graduated from Universiti Kebangsaan Malaysia (UKM) with Master Engineering (Mechanical) in 2008. Now, he has 10 years experience in teaching and research activities, starting from his first year at UMP in July 2006. He also contribute as part-time tutor for three semesters during his three years PhD study in University of Southern Queensland, Australia.

He has shown vast interest in Mechanical Vibration, Signal Analysis, Wave Propagation Based Structural Health Monitoring (SHM) and Non Destructive Testing research area. A very results-oriented leader: currently mentoring 6 student researchers; published 8 ISI/SCOPUS articles and;

presented 14 papers to conferences in MALAYSIA & INTERNATIONAL; and, has strong collaboration with Photonic Research Center University Malaya (PRCUM) under Distinguished Professor Dr. Harith Ahmad. Currently, Dr. Hafizi leads 2 projects in Structural Health Monitoring (SHM) with FBG sensors in UMP (collaboration with PRCUM) - recently won 1 Silver and 1 Bronze in Creation, Innovation, Technology and Research Exposition (CITREX)UMP 2016.

At present, he is resuming service as Senior Lecturer after 12 months industrial attachment at Proton Sdn. Bhd. Research and Development (R&D) department. He did the industrial attachment on a special project called "*Dynamic model updating of body-in-white (BIW) structure*", under PROTON's Local Expert Attachment Program (LEAP).

Research Area / Research Interest / Expert Area

Applied Mechanics, Wavelet Analysis, Structural Health Monitoring, Fibre Optic Technology, Signal Processing, Vibration analysis, Fibre Bragg grating sensors.

SOFTWARE: MATLAB, DASYLab, LaTeX.

Working Experiences / Appointment

- Aug 2005 - Mei 2006: Production Engineer, Perodua Manufacturing Sdn. Bhd (PMSB), Selangor.
- Jun 2006 - Aug 2008 : Tutor, Faculty of Mechanical Engineering (FKM), Universiti Malaysia Pahang.
- Aug 2008 - to date : Lecturer, Faculty of Mechanical Engineering (FKM), Universiti Malaysia Pahang.
- Mac 2010 - Feb 2011 : Penyelaras Jawatankuasa Kecil Program Pengajaran & Pengajaran (OBE) FKM.
- Jan 2010 : Advisor of Persatuan Silat Seni Gayong Malaysia, Universiti Malaysia Pahang.
- Jan 2009 - Dec 2010 : Coach for Universiti Malaysia Pahang Pencak Silat Team.
- July 2010 - Dec 2010 : Academic coordinator for Mechanical program (BMM).
- 2011 - 2013 : Part-Time Tutor at Faculty of Engineering and Surveying, USQ Australia.
- Mac 2014 - Dec 2015 : CEO Focus Group ASIVR, FKM.
- Mac 2014 - Dec 2015 : Member of Jawatankuasa Pembangunan dan Teknikal Fakulti, FKM
- Mac 2014 - Dec 2015 : Member of Jawatankuasa Akademik Fakulti, FKM.
- Mac 2014 - Dec 2015 : FKM LI (Industrial Practicum) Coordinator.
- Dec 2015 - Dec 2016 : Industrial attachment at PROTON SDN. BHD., Shah Alam.

Professional Qualification / Membership / Affiliation

1. Graduate Engineer, Board of Engineer, Malaysia (BEM): no. 61371A
 2. Toyota Production Strategy (TPS) Trainer, Paint Shop Department, Perodua Manufacturing Sdn. Bhd: 2005 - 2006
 3. Technical Officer of PESAKA Selangor (Wasit/Jury): 2005 - current
 4. Individual Member, Malaysian Society of Nondestructive Test (MSNT): no. I21 2009
 5. Graduate member of Institution of Engineers Malaysia (IEM) - ID: 88779.
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List of Publications

A) ISI/SCOPUS Indexed Journals

1. Z. M. Hafizi, C.K.E. Nizwan, M.F.A. Reza & M.A.A. Johari. **2011**. "High Frequency Acoustic Signal Analysis for Internal Surface Pipe Roughness Classification". Applied Mechanics and Materials. Vol. 83, pp. 249-254. (SCOPUS Q4)
2. Hafizi, Z. M., Epaarachchi, J., Nizwan, C. K. E., and Lau, K. T. **2012**. "Non-velocity Based Analysis of Passive Ultrasonic Signal for Source Location Detection in Composite Plates: A Pilot Study", IOP Conf. Series: Materials Science and Engineering Vol. 36, 012008. (SCOPUS)
3. Hafizi, Z. M., Epaarachchi, J. and Lau, K. T. **2013**. "Modal Acoustic Emission Investigation for Progressive Failure Monitoring in Thin Composite Plates under Tensile Test", Key Engineering Materials, vol 558, 2013, pp 65-75. (SCOPUS Q3)
4. Hafizi, Z. M., Epaarachchi, J. and Lau, K. T. **2013**. "Wave Propagation Scattering due to Defect on Thin Composite Plates", Journal of Mechanical Engineering and Sciences (JMES), vol 5, pp 602-610. (SCOPUS)
5. Hafizi, Z. M., Epaarachchi, J. and Lau, K. T. **2013**. "The Investigation of Acoustic Emission Signal Attenuation for Progressive Failure Monitoring in Fiberglass Reinforced Composite Laminates", International Journal of Automotive and Mechanical Engineering (IJAME), vol 8, pp 1464-1478. (SCOPUS, Q2, IF:0.146)
6. Hafizi, Z. M., Epaarachchi, J. and Lau, K. T. **2014**. "Impact Location Determination on Thin Laminated Composite Plates Using the NIR-FBG Sensor System", Measurement. Volume 61, February 2015, Pages 5157 (ISI - 1.526, Q2/SCOPUS)
7. Z.M.Hafizi, J. Epaarachchi. **2015**. "Dynamic Response and Signal to Noise Ratio (SNR) Investigation of NIR-FBG Dynamic Sensing System for Monitoring Thin Composite Plate". IOP Conference Series: Materials Science and Engineering, Volume 100, conference 1 (SCOPUS).

8. Mohd Hafizi Zohari, Mohd Fadhlán Yusof, Januar Parlaungan Siregar, Lim Kok Sing. **2015**. "The Applications of FBG sensor for Real-time Strain Mapping of Thin Composite Plate under Point Loading", Journal of Electrical System - "Special issue AMPE 2015" (ISI/SCOPUS - Q3)
9. E. Vorathin Z. M. Hafizi , K. S. Lim, **2016**. "The Use of Real-Time Monitoring System Utilizing Single Fibre Bragg Grating Sensor For Composite Plate under Static Loading", IOP Conf. Series: Materials Science and Engineering 152 (2016) 012024 (SCOPUS).
10. E.Vorathin, Z. M. Hafizi, S. A. Che Ghani and K. S. Lim, **2016**. "Review on real-time FBG monitoring system for SHM of composite structures: Drawbacks and solutions", International Journal of Automotive and Mechanical Engineering (IJAME)- under review.
11. E.Vorathin, Z. M. Hafizi, S. A. Che Ghani and K. S. Lim, **2016**. "The use of an improved technique to reduce the variability of output voltage in real-time FBG based monitoring system", International Journal of Automotive and Mechanical Engineering (IJAME)- submitted.
12. E.Vorathin, Z. M. Hafizi, S. A. Che Ghani, J. P. Siregar, K. S. Lim **2017**. "FBGs real-time impact damage monitoring system of GFRP beam based on cross-correlation and linear source location algorithm", Journal: Optical Fiber Technology - under review.

B) Non-ISI/SCOPUS-Indexed Journals

1. Mohd Hafizi Zohari & Mohd Hanif Md Saad. **2009**. "Qualitative Internal Surface Roughness Classification using Acoustic Emission Method", NDT Spectra Journal, 35 40, Issue No.3, April 2009.

C) Conference Papers (INTERNATIONAL)

1. Z. M. Hafizi ; J. Epaarachichi ; K. T. Lau ; Jinsong Leng ; Yoseph Bar-Cohen ; In Lee ; Jian Lu; "Non-velocity-based analysis of passive ultrasonic signal for source location detection in composite plates: a pilot study". **2012**. Proc SPIE. 84090A (1899).
2. Hafizi, Z. M. and Epaarachchi, J. and Lau, K. T. "Modal analysis of high frequency acoustic signal approach for progressive failure monitoring in thin composite plates". In: MPC 2012: 2nd Malaysian Postgraduate Conference, **7-9 Jul 2012**, Gold Coast, Australia.
3. Mohd Hafizi Zohari, Jayantha Ananda Epaarachchi, K. T. Lau. "Modal Acoustic Emission Investigation for Progressive Failure Monitoring in Thin Composite Plates under Tensile Test". 4th Asia-Pacific Workshop on Structural Health Monitoring Conference (SHM 2012), **5th and 7th December 2012**, Melbourne, Australia.
4. G.C. Kahandawa, Z.M.Hafizi, J.Epaarachchi and K.T.Lau. Detecting delamination in a composite structure using an Embedded FBG AE hybrid System. 7th Australasian Congress on Applied Mechanics, ACAM 7, **9-12 December 2012**, Adelaide, Australia.
5. Z.M.Hafizi, G.C. Kahandawa, J.Epaarachchi, K.T.Lau, J.Canning & K.Cook. "NIR Fibre Bragg Grating as Dynamic Sensor: An Application of 1D Digital Wavelet Analysis for Signal Denoising". The 4th International Conference on Smart Materials and Nanotechnology in Engineering (SMN 2013). **10 12 July 2013**, Gold Coast.

6. Z.M.Hafizi, G.C. Kahandawa, J.Epaarachchi, K.T.Lau, J.Canning & K.Cook. "An Application of Near Infra-Red Fibre Bragg Grating as Dynamic Sensor in SHM of Thin Composite Laminates". International Workshop on Structural Health Monitoring 2013. **September 10-12, 2013**, Stanford University, Stanford, CA USA.
7. Hafizi, Z. M, Epaarachchi, J. and Lau, K. T. "Wave propagation scattering due to defect on thin composite plates". In: MPC 2013: 3rd Malaysian Postgraduate Conference, **4 Jul 2013**, Sydney, Australia.

D) Conference Papers (MALAYSIA)

1. Mohd Hafizi Bin Zohari & Mohd Hanif Md Saad, "Qualitative Internal Surface Roughness Classification using Acoustic Emission Method", International Conference on Advance Mechanical Engineering (ICAME 09), Concorde Hotel, Shah Alam, Selangor, **25th 26th Jun, 2009**. ISBN 978-967-305-355-1.
2. Mohd Hafizi Bin Zohari, Che Ku Eddy Nizwan Che Ku Husin & Mohd Hanif Md Saad, "Time Domain Analysis of Acoustic Emission Signal for Internal Surface Roughness Classification", The 10th International Conference on Fluid Machinery, AICFM 2009, Berjaya Time Square Hotel & Convention Centre, Kuala Lumpur, **21st 23rd October 2009**. ISBN 978-983-9805-79-6.
3. M.Z.Hafizi, C.K.E Nizwan, D.M. Firdaus. "A Study of Acoustic Emission Intensity Effect during Fuel Injector Fault". National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER'10), **26th May 2010**, ISBN:978-967-5080-95-1, University Malaysia Pahang, 2010.
4. Z.M.Hafizi, C.K.E.Nizwan, M.F.A.Reza & M.A.A.Johari. "High Frequency Acoustic Signal Analysis for Internal Surface Pipe Roughness Classification". International Conference of Experimental Mechanics 2010 (ICEM 2010), **29th Nov - 1st Dec 2010**, Legend Hotel, Kuala Lumpur, Malaysia.
5. Z.M.Hafizi, J.Epaarachchi, K.T.Lau. "An Investigation of Effective Detection Length of a Localized Micro-failure in a Laminated Thin Composite Plate Using FBG Sensor Integrated AE System". 8th Asian-Australasian Conference on Composite Materials (ACCM-8), **6 8 November 2011**, Kuala Lumpur, Malaysia.
6. Z.M.Hafizi, J. Epaarachchi. 2015. "Dynamic Response and Signal to Noise Ratio (SNR) Investigation of NIR-FBG Dynamic Sensing System for Monitoring Thin Composite Plate". ICMER **2015**. Kuantan, Pahang, Malaysia.
7. Mohd Hafizi Zohari, Mohd Fadhlan Yusof, Januar Parlaungan Siregar, Lim Kok Sing. 2015. "The Applications of FBG sensor for Real-time Strain Mapping of Thin Composite Plate under Point Loading", International Conference of Advanced Mechanics, Power and Energy (AMPE2015), **5 December 2015**, Holiday Inn Kuala Lumpur, Glenmarie, Shah Alam, Selangor MALAYSIA
8. E. Vorathin Z. M. Hafizi , K. S. Lim, 2016. "The Use of Real-Time Monitoring System Utilizing Single Fibre Bragg Grating Sensor For Composite Plate under Static Loading", AEROTECH VI 2016, **8 9 November 2016**, Parkroyal Hotel, Kuala Lumpur.

Reviewer for Articles

- Reviewer for International Conference on Mechanical Engineering Research, ICMER 2015, 11 papers.
- Reviewer for National Conference on Postgraduate Studies, NCON 2015, 1 paper.
- Reviewer for 5th International Conference on Noise, Vibration & Comfort (NVC) 2015, 1 paper.

List of Research / Projects

As Project Leader

1. "Development of High Frequency Acoustic Sensor System for Internal Surface Pipe Roughness Monitoring" as Project leader and researcher, Grant amount of RM 40,000. RDU 090369, (June 09 - May 11)
2. "Development of Composite Smart Structures". Grant amount RM 5,500. RDU 141119 (1 December 2014 - 29 February 2016)
3. "Modal Acoustic Emission with Time Frequency Analysis for Plate Thickness Monitoring" as Project leader. Grant amount RM 32,000. RDU 1403154 (25 December 2014 - 24 December 2016)
4. "The Application of Dynamic Pressure Sensor Based on FBG for Monitoring of Water Supply System" as Project leader. Grant amount RM 27,000. RDU 1403155 (25 December 2014 - 24 December 2016)
5. "A Study of Progressive Damage Detection in Thin walled Composite Structures Using an Embedded Fiber Bragg Grating - Acoustic Emission Hybrid System" as Project leader. Grant amount RM 95,400. RDU160136 (1 August 2016 - 31 July 2019) - FRGS

As Researcher

1. "Development of On-line Machining Condition System: An Acoustic Emission Approach". Grant amount of RM 40,000. RDU 100323, (May 10 - April 11).
2. "Design and Fabrication of Solar Car Power and Drive System". Grant amount of RM 40,000. RDU 100324, (May 10 - April 11).
3. "Quantitative Assessment Exposure of Vibration to Malaysian Drivers". Grant amount of RM 34,000. RDU 100359, (1 Aug 2010 - 31 Jun 2012).
4. "Design and Fabrication of Solar Car Body and Chassis" as researcher, grant amount of RM 36,000. RDU 100362, (1 Aug 2010 - 31 July 2011).

5. "Modelling of Thermal Comfort and Productivity in Automotive Industries", grant amount of 37,500. RDU 100351 (1 Aug 2010 - 31 Jun 2012).
 6. "A Novel Technique Using the Acoustic Emission Features in Bone Tissue". Grant amount RM 20,100. RDU110306 (15 May 2011 - 15 December 2012).
 7. "Development of Quality Monitoring System for Dissimilar Metals Welding using and Air Borne Acoustic Wave". Grant amount RM 34,500.00, RDU130340 (15 June 2013 - 14 June 2015).
 8. "Empirical Mode Decomposition (EMD) Based Signal Analysis of a Diesel Engine Using Biodiesel". Grant amount RM 20,000, RDU 1403152 (25 December 2014 - 24 December 2016).
 9. "Development of Bearing Fault Detection System based on Vibration Signal". Grant amount RM 21,860.00, RDU1403129 (15 November 2014 - 14 November 2016).
 10. "Computational Method to Estimate Fatigue Life and Durability of Spur Gear by Using Stress-Life (SN) and Measurement of Root Stress Data". Grant amount RM 26,500. RDU150336 (25 June 2015 - 24 June 2017).
 11. "Structural Dynamic Properties Investigation of Dissimilar Materials (AA 7075, AA 6061, AZ31B) Joints Produced by Friction Stir Welding (FSW)". Grant amount RM 20,470. RDU 150335 (25 June 2015 - 24 June 2017).
 12. "A study of Tyre Cavity Resonance Noise effect to Vehicle Cabin Acoustic Level". Grant amount RM 32,800. RDU 150376 (1 October 2015 - 30 September 2017)
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Research Achievements / Awards

1. "Smart structure with FBG sensor system", AiNEX 2015 Gold medallist and First prize winner (RM 2000), category University / Industry.
 2. "Pipe leak detection using FBG dynamic sensor system", AiNEX 2015 Silver medallist, Category University / Industry.
 3. "Smart structure with FBG sensor system", CITREX 2016 - Silver medalist, category staff.
 4. "Fiber Bragg Grating Dynamic Pressure Transducer", CITREX 2016 - Bronze medalist, category staff.
 5. "Smart Monitoring of Composite Structure (SMOCS)", ITEX 2016 - Silver medalist.
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Post Graduate Students (Main-SV)

1. Nor Syukriah Binti Khalid (PMM15009), 22/9/2015 - on going, Ph.D (Part - Time), "Vibration response of nonlinear system as they pass through resonance".

2. Vorathin A/L Epin (MMM16008), 25/3/2016 - on going, Msc (Full-Time), "Development of acoustic-based system for internal surface pipe condition monitoring".
 3. NURAZIMA BINTI ISMAIL (PMM16019), on-going Ph.D.(full-time), "A Study of Progressive Damage Detection in Thinwalled Composite Structures using an Embedded Fiber Bragg Grating - Acoustic Emission Hybrid System".
 4. MUHAMMAD AIZZUDDIN BIN ABDULLAH (MMM16027), on-ging Msc (Full-time), "Agarwood oil extraction process: Development of multi-channel FBG-based static-dynamic pressure transducer for automated hydro distillation system".
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Post Graduate Students (Co-SV)

1. Zuriadi Bin Zaulkafilai (PMM15012), 23/10/2015 - on going, Ph.D (Part-Time), "Effect of Sustainable Cutting on Product Surface Roughness and Tool Life in Machining Biomaterial", Main SV: Dr Saiful Anwar Bin Che Ghani (UMP).
 2. Mohd Zaidi Bin Azir (PMM15013), 23/10/2015 - on going, Ph.D (Part-Time), "Axiomatic Design Approach in Cutting Tool Modelling to Reduce Tool Wear in Machining Biomaterial", Main SV: Dr Wan Sharuzi Bin Wan Harun (UMP).
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Teaching Experience

- JUL 2006/2007: (1) **DMM2523 Dynamics**, 3 credits, (2) Fluid Mechanics 1 Lab, 3 credits.
- DEC 2006/2007: (1) **DMM1532 Statics**, 2 credits, (2) DMM3914 Final year project, 1 student, (3) Fluid Mechanics 2 Lab, 3 credits.
- SEP 2008/2009: (1) **BMM3623 Mechanical Design**, 3 credits, 200 students (approximate).
- DEC 2008/2009: (1) **BMM3553 Mechanical Vibrations**, 3 credits, 200 students (approximate), (2) BMM3912 Final Year Project 1, 2 credits (7 students), (3) BMM4999 Industrial Training, 7 students.
- JULY 2009/2010: (1) **BMM1532 Statics**, 2 credits, 260 students (approximate), (2) BMM3912 Final Year Project 2, 4 credits, 7 students.
- DEC 2009/2010: (1) **BMM3553 Mechanical Vibrations**, 3 credits, 230 students (approximate), (2) DMM1922 Mechanical Technology Lab 2, 2 credits, 16 students.
- JULY 2010/2011: (1) **BMM3623 Mechanical Design**, 3 credits, 250 students (approximate), (2) **BMM3532 Measurement & Instrumentation Systems**, 2 credits, 250 students (approximate).
- 2012 2013 (University of Southern Queensland, Australia) 3 semesters: **ENG1002 Introduction to Engineering and Spatial Science Applications**, Tutorials session, 2 credits, 15-20 students.

- APRIL 2014: (1) **BMM1511 Engineering Mechanics Lab**, 26 students, (2) **DMM2632 Industrial Design**.
 - SEPT 2014: (1) **BMM3553 Mechanical Vibrations**, 65 students, (2) **BMM3532 Measurement and Instrumentation**, 61 students.
 - FEB 2015: (1) **BMM3553 Mechanical Vibrations**, 61 students, (2) **BMM3532 Measurement and Instrumentation**, 19 students.
 - SEPT 2015: **BMM3532 Measurement and Instrumentation**, 44 students
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Degree Final Year Project Supervision

1. Mohd Hizzuan Bin Harun, MA06023, "A study of Acoustic Emission Signal Events in Pedicle Screw Fixation Procedure", **2008/2009**
2. Mohd Firdaus Bin Daud, MH06042, "New Technique of Engine Performance Monitoring: An Acoustic Emission Approach", **2008/2009**
3. Mohd Alhafiz Bin Maznan, MH06015, "Design and Fabricating and Acoustic Emission Sensor Adapter for Engine Performance Monitoring", **2008/2009**
4. Mohd Khairul Najmie Bin Mohd Nor, MA06063, "Valve Condition Monitoring Using By Using Acoustic Emission Technique", **2008/2009**
5. Arif Johari B Mat Ali@Salim, MA06075, "Internal Surface Pipe Roughness Classification: An Acoustic Emission Approach", **2008/2009**
6. Mohd Firzikri Bin Abd Sata, MA06011, "Pipe crack detection using Acoustic Emission", **2008/2009**
7. Mohd Zulhilmi Bin Mohamad, MH06022, "Vehicle gear box monitoring using AE method", **2008/2009**
8. Nur Naquiah Bt Mohammad Ali, MH07020, "Automotive Engine Fault Diagnosis Using Acoustic Emission Method", **2009/2010**
9. Amar Reza Bin Mohammad Firdaus, MA08003, "Internal Surface Pipe Roughness Classification Using High Frequency Acoustic Evaluation", **2009/2010**
10. Dahrul Akma Bin Mohd Sabri, MA08012, "Acoustic Emission Signal Analysis in Cervical Bone Pedicle Screw Fixation Procedure", **2009/2010**
11. Muhammad Saufi Bin Abdul, MA07078, "Experimental Study on the Noise Reduction of Hydraulic Bench", **2009/2010**
12. Muhammad Khairi Bin Ghazali, MA07011, "Pipe Crack Source Location Detection using Single Channel Acoustic Emission System", **2009/2010**
13. Noor Aliani Bt Sutomoh, MA11089, "Investigation of Aluminum Heat Sink Design With Peltier Element As Thermoelectric Generator", **2014/2015**

14. Muhammad Firdaus Bin Othman, MA11116, "Plate Thickness Evaluation Using Modal Acoustic Emission (MAE) Approach", **2014/2015**
 15. Muhammad Amirul Syafiq Bin Azudin, MA11088, "Single Sensor Source Location Detection Using Modal Acoustic Emission", **2014/2015**
 16. Muhammad Syauqie Bin Shafie, MH11044, "Energy Harvesting From Domestic Water Distribution System Using Pelton Turbine", **2014/2015**
 17. Nurliyana Mustaffa, MG12017, "A Study of Pipe Leak Detection Using Fiber Bragg Grating Dynamic Pressure Transducer", **2015/2016**
 18. Kee Li Voon, MA11089, "Design and Development of Dynamic Pressure Transducer Based on Fiber Bragg Grating Sensor", **2015/2016**
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Diploma Final Year Project Supervision

1. Firdaus Muhammad, 2007
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Industrial Training Supervision

Semester 2 Session 08/09

1. Mohd Alfadully Bin Mohamed Salleh (MA05010), PJI Holding Berhad
2. Maarof Bin Mohamad @ Mohd Othman (MA05081), Flexlink Engineering Sdn Bhd
3. Abdul Halim Bin Abdullah @ Shafei (MA05067), Flexlink Engineering Sdn Bhd
4. Rafizuwan Bin Ramli (ME05027), Metronic Engineering Sdn Bhd
5. Mohd Qayyum Bin Mohd Ridzuan (MB06052), Metronic Engineering Sdn Bhd
6. Ahmad Sapuan Bin Hassan (MH05059), KE Manufacturing Sdn Bhd
7. Mohd Firdaus Bin Mahmud (MH05049), KE Manufacturing Sdn Bhd

Semester 2 Session 09/10

1. Lee Kim Sim (ME06018), OA Research & Development Sdn Bhd, Cyberjaya
2. Mohammed Hasnulwardi Bin Hashim (ME06046), Denso (M) Sdn Bhd, Bangi
3. Mohd Zahiruddin Bin Azri (MH06069), TNB, Putrajaya
4. Harisuddin Bin Idris (MH06070), Sapura Brake Technologies Sdn Bhd, Bangi

Semester 2 Session 13/14

1. Ahmad Hafizuddin Bin Ruslan, MA11104, KJ Maintenance And Service Sdn Bhd
2. Muhammad Syauqie Bin Shafie, MH11044, YTL Power Services Sdn. Bhd.
3. Asrul Bin Hamzah, MA11075, HVAC Experts (M) Sdn Bhd
4. Abdul Azim Bin Abdul Raub, MA11155, Scomi KMC Sdn. Bhd.
5. Muhammad Hanafi Bin Yusop, MA11118, HVAC Experts (M) Sdn Bhd
6. Ahmad Badiuzzaman Bin Abdul Rahim, MC11052, TTES Team & Specialist Sdn Bhd
7. Muhammad Fardham Bin Fadly Poo, MG11027, Alam Dingin Air Conditioning Engineering Sdn Bhd
8. Muhammad Syafeeq Bin Mohamad Nor, MG11024, Huntsman Tioxide Sdn. Bhd.
9. Muhammad Afiq Syahir Bin Mohd Tahir, MH11096, TTES Team & Specialist Sdn Bhd
10. Nor Affaf Binti Mohd Zainal Abiddin, MA11044, Petronas Carigali Sdn. Bhd. (Kemaman)

Semester 2 Session 14/15

1. Hazrulzurina Binti Suhaimi, MA12062, Al-Ekhwan Enterprise
2. Taufiq Bin Samsudin, MH12022, Al-Ekhwan Enterprise
3. Amirah Fatin Binti Amran, MA12057, Al-Ekhwan Enterprise
4. Noor Mazira Azma Binti Azam, MA12072, Al-Ekhwan Enterprise
5. Ahmad Bin Abdul, MA12063, Al-Ekhwan Enterprise
6. Muhammad 'arif Bin Abdul Razak, MC12034, Al-Ekhwan Enterprise
7. Nurul Syuhaida Binti Mohd Asri, MH12038, Al-Ekhwan Enterprise
8. Nor Hasni Binti Othman, MC12015, Al-Ekhwan Enterprise
9. Muhammad Amir Bin Ismail, MG12015, Jabatan Kerja Raya (Cawangan Kejuruteraan Mekanikal Panji)
10. Muhammad Shahrin Bin Sabri, MH12034, Jabatan Kerja Raya (Cawangan Kejuruteraan Mekanikal Panji)
11. Mohamad Azmilhisyam Bin Ab Rahman, MH12039, Jabatan Kerja Raya (Cawangan Kejuruteraan Mekanikal Panji)
12. Nadiah Binti Shahidan, MG12006, Jabatan Kerja Raya (Kuala Terengganu)
13. Muhammad Aizzuddin Bin Abdullah, MA11168, Jabatan Kerja Raya (Kuala Terengganu)
14. Mohammad Faiz Azmi Bin Ahmad Nordin, MC12008, Jabatan Kerja Raya (Kuala Terengganu)
15. Norhafizah Wati Rizal Binti Yusoh, MC12005, Jabatan Kerja Raya (Kuala Terengganu)

List of Course / Conference Attended

Tutor DA41 (2006 - 2008)

- 26-29 June 2007, Bengkel Pemurnian Kurikulum, Silibus, Perancangan Pengajaran & OBE Bagi Tujuan Penilaian EAC, Swiss Garden, Balok, Kuantan (Participant).
- 15-24 May 2007, Research Methodology Course, UMP (Participant).
- 17-19 April 2007, Kursus 'A Course on IELTS', UMP (Participant).
- 17 March 2007, Bengkel Pengurusan Perubahan ke Peningkatan Profesionalisma Staf Akademik, Shahzan Inn, Kuantan (Participant).
- 27 Feb 2007, Web Development Workshop using Macromedia Dreamweaver, UMP (Participant).
- 21 Dec 2006, Seminar Penyeliaan PSM Oleh Prof. Dr. Awaluddin, Dewan Majlis KUKTEM (Participant).
- 17-18 Dec 2006 Faculty Strategic Planning Workshop (SPW), Summerset Rompin (Participant).
- 6-8 Dec 2006, Teaching and Learning Course (P&P), Cameroon Highlands (Participant).
- 7-8 Sep 2006, OBE Workshop, KUKTEM (Participant).

Lecturer DS45 (2008 - 2014)

- 4 July 2013, The 3rd Malaysian Postgraduate Colloquium 2013, Sydney (Presenter).
- 7-8 July 2012, 2nd Malaysian Postgraduate Colloquium 2012, Bond University Gold Coast (Presenter).
- 25 June 2010, Bengkel Penetapan Hala Tuju dan KPI Pusat Kecemerlangan Automotif (AEC) (Participant).
- 25 June 2010, Bengkel Permasalahan Solat Jamak, Qasar dan Solat Berjamaah kali ke 2 (Participant).
- 28 June - 1 July 2010, Program Latihan dan Persijilan Autodesk Inventor 2010 (Tahap Associate) Anjuran Bersama Kementerian Pengajian Tinggi dan Prestariang systems Sdn Bhd. (Participant).
- 23-25 June 2010, IELTS course by UMP (Participant).
- 23-24 June 2010, Faculty CQI workshop (Participant).
- 26 May 2010, National Conference in Mechanical Engineering for Research & Postgraduate Studies (NCMER'10) Poster presentation

- 9-10 Jan 2010 Bengkel Pemurnian Akademik & kurikulum Siri I/2010 (Participant).
- 14-22 Dec 2009, Kursus Penilaian Tahap Kecekapan (TK3) Pensyarah Universiti (DS45) tahun 2009 (Participant).
- 11-13 Dec 2009, OBE & CQI Workshop 2009 (Academic & Technical) (Participant).
- 21-23 Oct 2009, The 10th Asian International Conference of Fluid Machinery (AICFM 09) (Presenter).
- 5-9 Oct 2009, Acoustic Emission Level 3 Training Course (Participant).
- 16 July 2009, Wavelet Theory and Application with MATLAB (Participant).
- 30 June - 2 July 2009, Science Fund Proposal Preparation Workshop No.2/2009 (Participant).
- 25-26 June 2009, International Conference on Advance Mechanical Engineering (ICAME09) (Presenter).
- 9-28 June 2009, Induction Course by Universiti Malaysia Pahang (Participant).
- 30 Dec 2008, Training on Introduction to STATISTICA Industrial, FKM Lab (Participant).
- 21-23 Dec 2008, Engineering Accreditation (EAC) Lead Trainer, Vistana Hotel, Kuantan (Participant).
- 1-3 Dec 2008, FKM OBE Workshop: Curriculum Transformation and Teaching Plan Review, Selesa Hillhomes, Bukit Tinggi. (Participant).
- 18-19 Nov 2008, Kursus Kemahiran Fasilitator, M S Garden Hotel, Kuantan (Participant).
- 15-16 Nov 2008, Kursus Rekabentuk Kurikulum (Format OBE), Blok X DK 5, UMP (Participant).

Senior Lecturer DS52 (2014 - to date)

- 10 & 11 May 2014, Short Course on Virtual Instrumentation Using DASyLab Software, Vibration Lab, UMP Pekan (Trainer).
- 14 October 2014, Viva-Voice for postgraduate student (Muhammad Adib Shaharun) Master program (Secretariat).
- 29-31 October 2014, A-SLEAD: AKEPT Strategic Leadership Development in Industrial Training / Practicum Level 1 (Participant).
- November 2014, A short course on Virtual Instrumentation Using DASyLab Software, Vibration Lab, UMP Pekan (Trainer).
- 30 Jun - 8 July 2014, Graduate Short Course Program under ICoE Automotive Cluster, Vibration Lab, UMP Pekan (Trainer).
- 22 January 2015, LaTeX Workshop, UMP Pekan (AEC/ ASIVR) (Trainer).
- 24-25 January 2015, National Conference for Postgraduate Research 2015, UMP Gambang (Chairman / Panel).

- 27 January 2015, Bengkel penulisan dan penilaian kertas cadangan geran penyelidikan UMP, Hotel Vistana, Kuantan, Pahang (Participant).
- 16 - 17 June 2015, PIC Workshop for Project Engineer, Serdang, Selangor (Participant).
- 29 June - 2 July 2015, Acoustic Emission Technology, UMP Pekan (Trainer).
- 27-28 July 2015, Kursus Kemahiran Pengurusan dan Penyeliaan, Dewan Tun Fatimah, UMP Gambang (Participant).
- 18-19 August 2015, International Conference on Mechanical Engineering Research, ICMER 2015, The Zenith, Kuantan, Pahang (Presenter / Co chair session).
- 18 August 2015, Advanced Innovation and Engineering Exhibition (AiNEX 2015), The Zenith, Kuantan, Pahang (Participant - 2 projects).
- 21 August 2015, A Short Course on "Introduction to Arduino and 3D Printing" for SESMA, Vibration Lab, UMP Pekan (Organizer / Trainer).
- 20-21 October 2015, A short course on "The Introduction to Solidworks Software for Sekolah Menengah Sains Sultan Haji Ahmad Shah, SEMSAS", Vibration Lab, UMP Pekan (Organizer / Trainer).
- 1 - 5 November 2015, Training for API653, Chukai, Kemaman (Participant).
- 3 March 2016, Engineering Technical Session "How to write high impact journal", Proton Shah Alam (Trainer).

External Activities

- 2015, Flood relief mission at Temerloh, Pahang.
- 2015, Advisor for Robotic Club, Sekolah Menengah Sains Sultan Mahmud, Kuala Terengganu.
- 2014, Wasit / Jury for Kejuaraan Seni Silat Piala Tok Gajah 1.0 (23 - 25 May 2014), **UNIVERSITY LEVEL**.
- 2010, UMP Coach for "Kejohanan Pencak Silat Terbuka dan Jemputan UKM 2010", Piala Timbalan Naib Canselor HAI Ehwah Pelajar & Alumni, Universiti Kebangsaan Malaysia (Tamingsari 2) 2010, **INTERVARSITY LEVEL**.
- 2010, Advisor for "Persatuan PSSGM UMP", **UNIVERSITY LEVEL**.
- 2010, UMP coach for Pencak Silat Team, **INTERVARSITY LEVEL (MASUM)**.
- 2010, UMP Coach for "Kejohanan Pencak Silat PSSGM Zon Pantai Timur (Pahang, Terengganu, Kelantan, Johor)", **EAST COAST ZONE - 5 Gold medals**.
- 2009, Wasit / Jury for "Kejohanan Pencak Silat Antara Kolej UKM (SUKEM 2009)", **UNIVERSITY LEVEL**.

- 2009, UMP coach for "Pencak Silat MASUM", **INTERVARSITY LEVEL (MASUM) 1 gold medal, 3 bronze medals.**
- 2009, UMP coach for "Kejohanan Pencak Silat Terbuka IPT UKM (Taming Sari I)", **INTERVARSITY LEVEL (MASUM) 1 silver medal, 4 bronze medal.**
- 2009, Advisor for Persatuan Seni Silat Gayong UMP, **UNIVERSITY LEVEL.**
- 2008, Coach / Trainer for "Self Defense Workshop, UKM 2008", **UNIVERSITY LEVEL.**
- 2008, "Kejohanan Pencak Silat MASUM (UKM Team) 2008" as Participant / Coach, **INTERVARSITY LEVEL (MASUM).**
- 2007, Participant in "Kursus Latihan Pemantapan Seni Kategori Jurus Tunggal" Organized by Persilat (International Pencak Silat Federation) - **INTERNATIONAL LEVEL.**
- 2007, Participant in "Kejohanan Pencak Silat Terbuka IPT UPNM 2007" **INTERVARSITY LEVEL - Bronze Medal (Jurus Tunggal).**
- Participant in "Kejohanan Pencak Silat Sukan UKM (SUKEM) 2007" - **UNIVERSITY LEVEL Gold Medal (Jurus Tunggal).**
- 2007, Sukan Staff 2007 (Hoki) - **INTERVARSITY LEVEL (MASUM) Group Qualification.**
- 2007, Kejohanan Bola Tampar Tertutup (Staff) UMP 2007 - **UNIVERSITY LEVEL Group Qualification.**
- 2006, Wasit / Jury for "Kejohanan Pencak Silat Antara Kolej UKM (SUKEM 2006)" - **UNIVERSITY LEVEL.**
- 2006, Industrial Visit to Proton Tanjung Malim Sdn Bhd (MECHAPRO) as Officer.
- 2006, AJK for Qurban Program ('Aidiladha).