



Mr. Mohamad Zairi Baharom  
Lecturer  
Faculty of Mechanical Engineering,  
Universiti Malaysia Pahang,  
26600 Pekan, Pahang,  
MALAYSIA.  
Tel: 609-424 6317, Fax: 609-424 6000  
Email: mohamadzairi@ump.edu.my  
Google Scholar: mohamad zairi baharom

## Academic Qualification

Qualification	Class Of Award	Year	Univ./Institution
Bachelor of Engineering (Mechanical Engineering - Industry)	B. Eng (Hons)	2007	Universiti Teknologi Malaysia (UTM)
Master of Science (Mechanical)	M. Sc	2013	Universiti Kebangsaan Malaysia (UKM)

## Working Experiences / Appointment

1. R&D Mechanical Engineer at Panasonic Communication Malaysia ( Nov 2007 – Oct 2008 )
2. Tutor at Universiti Malaysia Pahang ( Oct 2008 – Apr 2013 )
3. Lecturer at Universiti Malaysia Pahang (Apr 2013 - present)

## Expert Area

Industrial Engineering

## Research Interest

Industrial Engineering, Production Planning & Control, Electromagnetic Braking & Eddy Current.

## Research Project / Grant

1. RDU 130390 Electromagnetic Braking Effect for Power Steering System (LEADER)
2. RDU 130314 Developemnt of prototype semi-active absorber utilizing piezoelectric ultrasonic motor (MEMBER)
3. RDU 130340 Development of Quality Monitoring system for dissimilar metals welding using air borne acoustic wave (MEMBER)
4. RDU 130320 Fatigue life prediction based on dynamic charateristics for metallic component (MEMBER)
5. RDU 121410 Leaks detection and local in water distribution system (MEMBER)
6. FRGS RDU 130111 A new technique of leak detection in a gas pipeline network based on time reversal method and non-linear acoustic (MEMBER)
7. FRGS/2/2013/TK01/UMP/02/5 A new algorithm to identify nonlinear vibration in a car body white structure (MEMBER)

## Teaching Experience

1. 091001/DIP-DMM3623-Manufacturing Technology
2. 091002/DIP-DMM2632
3. 091002/DIP-DMM2633
4. 121302/DIP-DMM1512 CAD
5. 131401/IJA- BMM 3611 Manufacturing Process Lab
6. 131401/DIP- DMM 2523 Dynamics
7. 131401/DIP- DMM 2412 Metrology
8. 131402/IJA- BMM 3633 Industrial Engineering
9. 131402/IJA- BMM 4833 Quality Engineering

## Degree / Final Year Supervision

Name Of Candidate	Title Of Thesis	Date Of Registration	Name Of Degree	Date Of Completion
Soh Yan Xin	Design and Fabrication of Drop Test Device	2008	Diploma in Mechanical Engineering	2009
Muhamad Izzat Haslan	Design and Fabrication of Reliability Test Fixture (Hook Button Stroke)	2008	Diploma in Mechanical Engineering	2009
Mohd Naqiuddin Mohd Salleh	Design and Fabrication of Impact Test Device	2008	Diploma in Mechanical Engineering	2009
Syahidah Nafisa Abdul Malik	Design and Fabrication of Reliability Test Device for Telephone Cord Pulling Strength and Slip Down Test	2008	Diploma in Mechanical Engineering	2009
Syahidah Nafisa Abdul Malik	Development of Graphical User Interface (GUI) for Bearing Fault Detection	2012	Degree in Mechanical Engineering	2013
Nazirul Azim Bin Mohd Asri	Vibration measurement on rotating specimen	2012	Degree in Mechanical Engineering	2013
Mohd Shafiq Azrul Bin Azmi	Vibration analysis on different types of crack on a beam	2012	Degree in Mechanical Engineering	2013

## List of Publications

M.Z. Baharom, M.Z. Nuawi, G. Priyandoko, S.M. Harris, M.Z. Omar, Electromagnetic Braking Using Eddy Current Resistance for Stationary Exercise Bike, *Advanced Science Letters*, 19(11): 3143-3147, Scopus.

M.Z. Baharom, M.Z. Nuawi, G. Priyandoko, S.M. Haris, Electromagnetic Braking System Using Eddy Current for Brake Disc of Al 6061 and Al 7075, *International Review of Mechanical Engineering*, 6(3):pp 588-594, Scopus.

Gigih Priyandoko, Mohamad Zairi Baharom, PSO-optimised adaptive neuro-fuzzy system for magneto-rheological damper modelling, *International Journal of Applied Electromagnetics and Mechanics*, 41(3): 301-312, Scopus.

Mohamad Zairi Baharom, Mohd Zaki Nuawi, Mohammad Syuhaimi Ab-Rahman, Gigih Priyandoko, Che Ku Eddy Nizwan, Mohd Sazali Salleh, Air-gap Effect on Single Axis Vibration of Electromagnetic Braking Using Eddy Current on Bearing Cage, *Applied Mechanics & Materials (AMM)* (accepted)

M. Z. Baharom, M. Z. Nuawi, G. Priyandoko, Parameter Analysis of Electromagnetic Braking Using Fully Nested & Two Way ANOVA, *Applied Mechanics & Materials (AMM)* (accepted)

MZ Baharom, MZ Nuawi, G Priyandoko, SM Harris, LM Siow, Eddy Current Braking Study for Brake Disc of Aluminium, Copper and Zinc, *Regional Engineering Postgraduate Conference*

MZ Baharom, MZ Nuawi, G Priyandoko, SM Harris, Eddy current braking experiment using brake disc from aluminium series of, *IOP Conference Series: Materials Science and Engineering* 36 (1), 012005

## List of Books

Application of Kanban, Work Study & Simulation to Reduce High WIP, ISBN-10:3659221929, LAP Lambert Academic Publishing.

## Awards / Research / Achievements

1. Silver Medal, International Technology Exhibition (ITEX 2012), Kuala Lumpur, Malaysia.
2. Bronze Medal, Creation, Innovation, Technology and Research Exposition (CITREx 2014), Kuantan, Malaysia.
3. 1st Runner-Up, Proton Green Mobility Challenge 2012, Kuala Lumpur, Malaysia.

## List of Course / Conference Attended

1. Six Sigma Training, Panasonic HQ (June 2008).
2. ISO 9001 Awareness
3. Training on Introduction to STATISTICA Industrial
4. Quality Management System (QMS)
5. Higher Education Professional Training
6. Research Methodology Course
7. Catia V5 Training
8. Regional Engineering Postgraduate Conference 2010, Kuala Lumpur, Malaysia.
9. International Conference on Mechanical Engineering Research (ICMER 2011), Kuantan, Pahang, Malaysia.
10. Regional Conference on Automotive Engineering Research (ReCAR 2011), Kuala Lumpur, Malaysia.
11. International Conference on Noise, Vibration & Comfort (NVC 2012), Kuala Lumpur, Malaysia.
12. International Workshop on Nanotechnology & Its Applications (IWNIA 2012), Guangzhou, China.
13. International Conference on Information Management & Industrial Engineering 2014, Dubai, UAE (coming August)
14. International Conference on Industrial Engineering & Industrial Management 2014, Kuala Lumpur (coming December)