



Dr. Zakri Bin Ghazalli  
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## Academic Qualification

1. **PhD, Okayama University, 2011**
2. **MSc. Mechanical Engineering, 2005**
3. **B.Eng, Mechanical Engineering, Kyushu Institute of Technology, 1997**

## Brief Profile

Zakri Ghazalli is currently a Senior Lecturer at Mechanical Engineering Faculty, Universiti Malaysia Pahang. Prior to his current position, he has been with Hamadatec Sdn Bhd, a reclaim wafer manufacturer for 3 years. He had underwent training in Konnan Design Co. Ltd for about 3 months, a product design company upon the completion his PhD. Zakri Ghazalli, married with two daughters, has a bachelor's degree in Mechanical Engineering from Kyushu Institute of Technology, Japan, master's degree in Mechanical Engineering from Universiti Sains Malaysia, and PhD (Development of intelligent evaluation system for product end-of-life selection strategy) from Okayama University. At present, He has shown in a vast interest in the field of product design, and management i.e. DFMA, and DF'X', product life cycle, ergonomics, and human engineering. Currently, he actively involves in automotive ergonomics, and sport engineering activities

## Working Experiences / Appointment

Oct 2012~Current Senior Lecturer, Universiti Malaysia Pahang  
Feb 2005~Sept 2012 Lecturer, Universiti Malaysia Pahang  
Jul 2004~Feb 2005 Tutor, Universiti Malaysia Pahang  
Jan 2003~Jun 2004 Research Assistant, Kolej Universiti Teknikal Kebangsaan Malaysia  
Oct 1997~ Sept 2000 Technical Development Engineer, Hamadatec Sdn. Bhd.

## Expert Area

1. DFMA/DFX
2. Product End-of-Life (EOL) design and management
3. Ergonomics – automotive, industrial, and occupational ergonomics
4. Sport engineering-Archery

## Research Interest

Apart from the above-mentioned expertise, I have a deep interest of research activities in the following area:

1. Biomechanics perspective in the assembly process
2. Human healthcare products development and design

## Research Project / Grant

No	Code	Title	Role	Status	Start	End
1	06-01-16-SF0089*	Development an Olympic scale of Recurve bow and archery for local junior athletes under 15 and 17 (U-15 and U-17)	Leader	On-going	01-04-14	31-03-16
2	RDU1303110	Three-dimensional modelling of human airway using fluid structure interaction (FASI) technique	Member	On-going	01-12-13	30-11-15
3	RDU1303107*	Modelling of vehicle seat for human comfort of a small size passenger car (K-car)	Leader	On-going	01-12-13	30-11-15
4	RDU130145	To enhance graphite nodularity of modified ductile Ni-resist using direct insertion of alloying elements during casting	Member	On-going	01-12-13	30-11-15
5	RDU1303108	Development and analysis of bow and arrow for Malaysian athlete	Member	On-going	01-12-13	30-11-15
6	RDU130129	Development and characteristics of waste cooking oil as bio -lubricant and Nano-lubricant at high temperature	Member	On-going	01-12-13	30-11-15
7	RDU1303113	Modeling and optimization of automotive manufacturing layout to enhance productivity	Member	On-going	01-12-13	30-11-15
8	RDU130393	Characteristiction of engine oil with nano particle as an additives	Member	On-going	25-11-13	24-11-15
9	RDU080502	Development of a design evaluation system software for home appliances remanufacturing	Member	Completed	01-07-08	31-12-09

10	RDU070345	Design and development of the multi purpose polymer floor tile to meet the performance needs of athletes	Member	Completed	09-01-07	31-08-08
11	RDU070307	Development of cam manufacturing machine	Member	Completed	04-01-07	30-03-208

\*: Looking for Masters students. Student who has a CGPA  $\geq 2.75$  are encourage to apply.

### Professional Qualification / Membership / Affiliation / Experience

Graduate Engineer, Board of Engineer, Malaysia 0406388 (Member since 2000)

### Teaching Experience

Session/Semester:	Subject
200405/ Semester I:	Engineering Mathematics I
200405/ Semester II:	Industrial Design, Engineering Mathematics II
200506/ Semester I:	Computer Programming: C, Chemistry
200506/ Semester II:	CAD, Dynamic Lab
200607/ Semester I:	Computer Programming: C, Design for Manufacturing and Assembly (DFMA)
200607/ Semester II:	CAD,DFMA
200708/ Semester I:	DFMA
2012/2013 Semester I:	Manufacturing Technology, Quality Engineering, Industrial Engineering
2012/2013 Semester II:	OSHA, Industrial Engineering
2013/2014 Semester I:	OSHA, Project Management
2013/2014 Semester II:	Project Management, Dynamics

### Post Graduate Supervision

### Degree / Final Year Supervision

### List of Publications

Google Scholar: <http://scholar.google.com.my/citations?hl=en&user=BuNRM74AAAAJ>

- M.R.Muhammad, Z. Ghazalli, Project Planning Through Functional Modeling Approach, National Project Management Conference, (2001).
- M.R.Muhammad, Z. Ghazalli, Development of Design Evaluation System for Manufacture and Assembly, Mechanical Engineering Research Colloquium, (2002).
- M.R.Muhammad, Z. Ghazalli, Computer Based Design For Assembly, Seminar Nasional Tahunan Teknik Mesin II (2003)
- M.R.Muhammad, Z. Ghazalli, and Rahmatullah, Evaluation System in Product Design for Assembly, Investing In Innovation (2003).
- M.R.Muhammad, Z. Ghazalli, Value Engineering in Product Design, Investing In Innovation (2003).
- M.R.Muhammad, Z. Ghazalli, Matching Economic Value and Functionalities in Product design, International Industrial Engineering Conference, (2004)
- Ahmad Razlan Yusoff, Zakri Ghazalli, Hazami Che Hussain, Determining Optimum Electro Discharge Machining Parameters In Drilling of a Small Hole by Utilizing of Taguchi Method, Proceedings of ICOMAST2006, International Conference on Manufacturing Science and Technology 28 to 30 August 2006, Melaka, Malaysia
- Ahmad Razlan Yusoff, Wan Mansor Wan Muhammad, Mohd Fadzli Ismail and Zakri Ghazalli, Balancing Automotive Production Line With Simple Assembly Line Balancing Type General, Proceedings of the 1st International Conference & 7th AUN/SEED – Net Fieldwise Seminar on Manufacturing and Material Process, pp 451 – 456.
- Zakri Ghazalli and Atsuo Murata, Development of an AHP-CBR evaluation system for remanufacturing: end-of-life selection strategy, International Journal of Sustainable Engineering, Vol. 4, No. 1, pp. 2-15, 2011.
- Zakri Ghazalli and Atsuo Murata, An integrated TSP-GA with EOL cost model for selecting the best EOL option, International Journal of Industrial Engineering Computations, Vol. 2, No. 4, pp. 775-792, 2011.
- Zakri Ghazalli and Atsuo Murata, Development of the evaluation system for automobile remanufacturing, Proceedings of the 4th International Workshop on Computational Intelligence & Applications (IWCIA), Hiroshima, Japan, pp. 77-82, 10-11, December, 2008.
- Zakri Ghazalli and Atsuo Murata, Design for the framework of remanufacturing evaluation system that supports automobile product design and development in early design phase. Proceedings of the Eighth International Conference on Eco-Balance, The Institute of Life Cycle Assessment, Tokyo, Japan, pp. 365-368, 10-12, December, 2008.
- Zakri Ghazalli and Atsuo Murata, The development of the computer aided remanufacturing system (CARES) Part I: Software development (phase I) and a simulation study. Proceedings of the 5th International Workshop on Computational Intelligence & Applications (IWCIA), Hiroshima, Japan, pp. 176 -181, 10-12, November, 2009.
- Book Chapter Published: Evaluation method for product end-of-life selection strategy, Advances in Ergonomics in Manufacturing, ISBN 978-1-4398-7039-6, CRC Press 2012
- Lingenthiren, Kadirgama, K., Thiruselvam, S. and Ghazali, Z., Review of Natural Fibers Mechanical Properties, Bothalia Journal 3(45), 2014.
- Kadirgama, K., Rahman, M.M., and Ghazalli, Z., 2013. Optimization of Heat Affected Zone for Air Plasma Cutting Process: A Support Vector Machine Approach, International Journal of Artificial Intelligence and Mechatronics, Volume 2, Issue 1, ISSN 2320 –

List of Books

List of Consultancy

List of Research / Project

Awards / Research / Achievements

Patents

List of Course / Conference Attended