

CURRICULUM VITAE FOR ACADEMIC STAFF

1. Name : ABD RAHIM BIN ABU BAKAR

2. Academic Qualification :

Year	Name of Degree / Diploma	Awarding Institution
2005	PhD in Mechanical Engineering	University of Liverpool, UK.
2000	MSc(Eng) in Automotive Engineering	University of Leeds, UK
1997	BEng in Mechanical Engineering	Universiti Teknologi Malaysia
1994	Diploma in Mechanical Engineering	Universiti Teknologi Malaysia

3. Professional Qualification :

- Professional Engineer (Ir.)
- Chartered Engineer / Scientist (C. Eng / C. Sci)
- Certificate Specialised Engineer/Technologist (eg. Welding Engineer, Steam Engineer etc.)
- Others, please specify :

4. Professional Membership :

- | | | |
|---------------------------------|---|---------------------------------------|
| <input type="checkbox"/> IIE | <input type="checkbox"/> IAENG | <input type="checkbox"/> MINDS |
| <input type="checkbox"/> SME | <input checked="" type="checkbox"/> SAE | <input type="checkbox"/> RINA |
| <input type="checkbox"/> ASME | <input type="checkbox"/> IEM | <input type="checkbox"/> IMarEST |
| <input type="checkbox"/> ASQ | <input type="checkbox"/> MSET | <input type="checkbox"/> IMM |
| <input type="checkbox"/> ASHRAE | <input type="checkbox"/> IEEE | <input type="checkbox"/> Other: |

5. List of Publication (5 recent publications)

- Ahmad Razimi Mat Lazim, Mohd Kameil Abdul Hamid and **Abd Rahim Abu Bakar**, The Effects of Pad Surface Topography on Disc Brake Squeal, **Applied Mechanics & Materials**, Vol. 165, pp. 58-62, 2012.
- Muhammad Amir Zanuddin and **Abd Rahim Abu Bakar**. 2012. Preventing disc brake squeal using a thin plate shim, **Int. J. Vehicle Structures & Systems**, 4 (1), pp. 23-27.
- Ali Zolfagharian, Mohd Zarhamdy Md. Zain , **Abd Rahim Abu Bakar** and Azizan As'array, Suppressing Chatter Noise in Windscreen Wiper Operation Using a Robust Hybrid

Controllers, **International Review of Mechanical Engineering** (I.RE.M.E.) vol. 6, no. 3, pp.630-635, 2012.

- d. Ali Zolfagharian, Amin Noshadi, Mohd Zarhamdy Md. Zain, **Abd Rahim Abu. Bakar**, Practical multi-objective controller for preventing noise and vibration in an automobile wiper system, *Swarm and Evolutionary Computation*. Vol. 8, pp. 54-68. 2013.
- e. S.M Hashemi-Dehkordi, M. Mailah, **A.R. Abu-Bakar**, Reducing Friction-Induced Vibration Using Intelligent Active Force Control with Piezoelectric Actuators, *Sadhana*. Vol. 37, Issue 6, pp.637-655. 2012. (IF: 0.259)

6. Research Grants received :

Year	Vot No.	Title	Role*	Amount (RM)	Funding Institution
2007	78190	Evaluation of an automotive wiper noise and vibration characteristics using numerical approach	L	100,000	MOHE
2007	03-01-06-SF047	Development of brake squeal suppression technique using structural modifications	L	288,000	MOSTI
2009	78423	Evaluation of disc brake noise suppression through structural modification using analytical approach	L	47,500	MOHE
2009	03-01-06-SF0786	Development of an electro-mechanical parking brake for passenger cars	L	133,000	MOSTI
2011	00H37	Investigation of disc brake judder and its suppression approach	L	150,000	MOHE/UTM

**L: Project Leader, R: Researcher or Member*

7. Consultancy involvements :

Project Title	Name of Company/Organisation	Role*	Project Cost
Vibration Analysis on Finned Fan Cooler	INTEKMA/PETRONAS	R	RM 12,000
Advance Vibration analysis on gas processing plant	INTEKMA/PETRONAS	R	RM 33,567

**L: Project Leader, R: Researcher or Member*

8. Past Working Experience(s) :

Year (From/To)	Employer Name	Position
1994/1995	Sony Electronics (M) Sdn Bhd	Assistant Engineer
1997/1997	Penang Seagate Industries (M) Sdn Bhd	Engineer
1997/2000	Universiti Teknologi Malaysia	Tutor
2000/2011	Universiti Teknologi Malaysia	Lecturer

2011	Universiti Teknologi Malaysia	Senior Lecturer
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1. Teaching Experience (List of courses taught) :

Code	Name of courses	B.Eng/MSc
SME 1203	STATICS	B.Eng
SME 3523	COMPONENT DESIGN	B.Eng
SMC 4133	AUTOMOTIVE STRUCTURES	B.Eng
SMC 4523	AUTOMOTIVE ENGINEERING DESIGN	B.Eng
SME 2152	INTRODUCTION TO DESIGN	B.Eng
SME 1503	ENGINEERING DRAWING	B.Eng