

BRIEF CV



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Academic Qualification:

- Doctor of Philosophy in Mechanical Engineering - Vibration (2006), Institute of Sound and Vibration Research, University of Southampton, UK.
- Bachelor of Engineering (with Honors) in Mechanical Engineering (2001), University of Southampton, UK

Areas of Interest:

Vibration, Biodynamic and Human Response to Vibration, Non-Destructive Testing

Professional Qualification/ Membership/ Affiliation:

- Members, Institute of Engineers, Malaysia (MIEM)
- Graduate Member, Board of Engineers (BEM), Malaysia
- Secretary General, Malaysian Vibration and Acoustic Society (SVAM)
- Member, Malaysian Society for Engineering and Technology (MySET)

Appointments:

October 10 – October 12	Associate Mechanical Engineer, SAFF Consultants, Mechanical and Electrical Engineering Consultants.
October 08 – <i>to date</i>	Senior Lecturer, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, UPM
June 06 – October 08	Lecturer, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, UPM
October 01 - June 06	Tutor, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, UPM

Administration:

May 09 – June 09	<i>Acting Head</i> , Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, UPM.
Jan 09 – <i>to date</i>	<i>Accreditation Panel</i> (Mechanical Engineering Cluster) for Malaysian Qualification Agency.
Jun 08 – <i>to date</i>	<i>Head</i> , Sound and Vibration Research Group, Faculty of Engineering, UPM.
Jun 08 – Dec 09	<i>Associate Researcher</i> , Renewable Energy Laboratory, Advanced Institute of Technology, UPM.

Research Topics (Project Leader):

Year	Topic/ Sponsor	Amount (RM)
2007-2009	<i>Identification of Machined Surface Roughness from Vibration and Ultrasonic Testing</i> , FRGS Higher Education (Head).	117,000
2007	<i>Detection of Citrullus Lanatus Ripeness and Firmness Using Non-Destructive Testing Technique</i> , SPLB, UPM (Head).	10,000,
2007-2009	<i>Development of A.I. Base Machining Parameter Prediction Device with Machine Performance Degradation for Turning Process</i> ScienceFund, MOSTI. (Co-Researcher).	249,694
2007-2009	Investigating the Response of a Single Acoustically Driven Bubble Near a Rigid Surface in a Polymer Gel, FRGS Higher Education. (Head).	104,500

Student Supervision:

Responsibility	No. of students			
	PhD		MSc	
	<i>On-going</i>	Completed	<i>On-going</i>	Completed
Main	2	-	-	3
Co-supervisor	2	1	1	3
Internal Examiner	-		14	
External Examiner			3	

Publications:

Publications	Quantity
Proceedings	> 20
Journals	> 12
Editor <i>Proceeding</i>	2

Journals

- Mothanna Y Abd, **Nawal Aswan Abdul Jalil**, Azma Putra and Jamalodin Noorzai (2012), Effects of structural parameters on the dynamcis of a beam structure of a beam structure with a beam-type vibration absorber, *Advances in Acoustics and Vibration* (accepted and *in-print*) [Scopus]
- Bin Wang, **Nawal Aswan Abdul Jalil** and Wong Shaw Voon (2012), Prediction of rotary machinery degradation based on vibration data using Back Propagation neural network, *Scientific Research and Essay*, Vol. 7(13), 1393-1404. [IF =0.45]
- Adeel H. Suhail, N. Ismail, S.V. Wong, **N.A. Abdul Jalil**, Surface roughness identification using the Grey relational analysis with multiple performance characteristics in turning operations (2012), *Arabian Journal for Science and Engineering*, Vol. 37 (4), 1111-1117. [Science Citation Index Expended]
- Alaa Raad Hussein, **Nawal Aswan Abdul Jalil** and Abd. Rahim Abu Talib (2011), Improvement of mechanical welding properties by using induced harmonic vibration, *Journal of Applied Sciences*, 11(2), 348 – 353. [Thomson ISI]

5. Adeel H. Suhail, N. Ismail, S.V. Wong and **N.A. Abdul Jalil** (2011), Workpiece surface temperature for in-process surface roughness prediction using response surface methodology, *Journal of Applied Sciences*, 11(2), 308-315. [Thomson ISI]
6. Adeel H. Suhail, N. Ismail, S.V. Wong and **N.A. Abdul Jalil** (2011), Cutting parameters identification using multi adaptive network based fuzzy inference system: an artificial intelligence approach, *Scientific Research and Essays*, Vol. 6(1), 187 – 195. [IF = 0.45]
7. Adeel H. Suhail, N. Ismail, S.V. Wong and **N.A. Abdul Jalil** (2010), Optimization of Cutting Parameters Based on Surface Roughness and Assistance of Workpiece Surface Temperature in Turning Process, *American Journal of Engineering and Applied Sciences*, 3(1), 102-108. [EBSCO]
8. Samira Mohamady, Raja Kamil Raja Ahmad, Allahyar Montazeri, Rizal Zahari and **Nawal Aswan Abdul Jalil** (2009), Modeling, Eigenfrequency Analysis of Sound-Structure Interaction in a Rectangular Enclosure with Finite Element Method, *Advances in Acoustics and Vibration*, Vol. 9, Article ID 371297. [Scopus]
9. S. M. Sapuan, K.W. Ham, K.M. Ng, C.K. Woo, M.K.A. Ariffin, B.T.H.T. Baharudin, A. A. Faieza, E.E. Supeni and **N.A.A. Jalil** (2009) Design of composite racing car body for student based competition, *Scientific Research and Essays*, Vol. 4 (11), 1151–1162. [IF = 0.45]
10. **N.A. Abdul Jalil** and M.J. Griffin (2008), Fore-and-aft apparent mass of the back: non-linearity and variation with vertical location, *Journal of Sound and Vibration*, 318 (4-5), 1348-1363. [IF = 1.57]
11. A.H. Suhail, N. Ismail, M. Daud and **N.A. Abdul Jalil** (2008), An adaptive system for in-process surface roughness control based on tool temperature and workpiece surface vision-data, National Instrument Asean.
12. **N.A Abdul Jalil** and M.J. Griffin (2007), Fore-and-aft transmissibility of backrests: Effect of backrest inclination, seat-pan inclination, and measurement location, *Journal of Sound and Vibration*, 299 (2007), 99-108. [IF = 1.57]
13. **N.A Abdul Jalil** and M.J. Griffin (2007), Fore-and-aft transmissibility of backrests: variation with height above the seat surface and non-linearity, *Journal of Sound and Vibration*, 299 (2007), 109-122. [IF = 1.57]
14. A.R. Abu Talib, A.A. Jaafar, **N.A. Abdul Jalil** and A.S. Mokhtar (2007), Flow measurements downstream of an axial flow fan inside an outdoor air conditioning unit, *International Journal of Engineering and Technology*, 4(1), 44-56.

Consultations:

1. *Forensic analysis of failure component*, Engineering Forensic Section, Kemenerian Keselamatan dan Kesihatan Pekerjaan, Oktober 2008 – Disember 2008.
2. *Bus Structure Finite Element Analysis (BSFEA)*, Transafe Consult Sdn Bhd, November 2007 – Oktober 2008
3. Penyiasat, *Technical Investigation on Road Crash involving Travel Bus with 11 Fatalities at km 160.8 North-South Highway, Malaysia on 30 July 2006*, Kementerian Pengangkutan Malaysia, Julai – September 2006.

Professional Training Attended:

- 7 – 9 Nov 11 Induction Course for New M&E Engineers, ACEM, Eastin Hotel, Selangor.
- 5- 6 Oct11 Two Day Course on Design of Sprinkler System, IEM, Petaling Jaya, Selangor.
- 19 – 20 Oct 11 Two Day Course on Principles and Desing of Electrical System in Buildings, IEM, Petaling Jaya, Selangor.
- 10 -11 Oct 11 Code of Ethics/Regulations, IEM, Petaling Jaya, Selangor.
- 25 – 26 July 11 Safety and Health at work, IEM, Petaling Jaya, Selangor.
- 18 – 19 July 11 Engineering Management Practise, IEM, Petaling Jaya, Selangor.
- 10 July 08 Seminar on Measurement and Instrumentation for Noise and Vibration (LMS System), Shah Alam, Selangor.
- 7 – 8 May 08 ISO 9001:2000 Quality Management System (QMS) Internal Auditing, Shah Alam, Selangor.