

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI <i>(Personal Details)</i>			
Nama Penuh <i>(Full Name)</i>	Othman bin Inayatullah		Gelaran <i>(Title)</i> : <i>Capt (Rtd) Dr</i>
No. MyKad / No. Pasport <i>(Mykad No. / Passport No.)</i> 690302-01-5779 A24833247	Warganegara <i>(Citizenship)</i> Malaysian	Bangsa <i>(Race)</i> Malay	Jantina <i>(Gender)</i> Male
Jawatan <i>(Designation)</i>	Senior Lecturer	Tarikh Lahir <i>(Date of Birth)</i>	02 March 1969

Alamat Semasa <i>(Current Address)</i>	Jabatan/Fakulti <i>(Department/Faculty)</i>	E-mel dan URL <i>(E-mail Address and URL)</i>
No 5 Jalan Satu, Taman Padang Behor , 01000 KANGAR Perlis Tel: (6) 04 977 0104 (Home) Tel: (6) 012-727 6526 (H/P)	Dept. of Mechanical and Manufacturing Engineering, Faculty of Engineering, Universiti Putra Malaysia Tel:03-89466338 Fax:03-86567122	E-mail: othatiah@eng.upm.edu.my othatiah@gmail.com

B. BIDANG PENYELIDIKAN <i>(Areas of Research)</i>
Applied Mechanics (Dynamics and Fluid), Tribology (Lubrication & Friction), Signal Processing, Machine Health Monitoring (Vibration, Acoustic Emission & Metal Magnetic Memory), Automotive Technology

C. KELAYAKAN AKADEMIK <i>(Academic Qualification)</i>			
Nama Sijil / Kelayakan <i>(Certificate / Qualification obtained)</i>	Nama Sekolah Institusi <i>(Name of School / Institution)</i>	Tahun <i>(Year obtained)</i>	Bidang pengkhususan <i>(Area of Specialization)</i>
Doctor of Philosophy	Universiti Kebangsaan Malaysia	2010	Mechanical & Materials Engineering - <i>(Monitoring and Assessment of Medium Speed Diesel Engine Oil Viscosity Using Acoustic Emission Technology)</i>
Master	Universiti Kebangsaan Malaysia	2003	Manufacturing System Engineering - <i>(Development Condition Monitoring Technology on Diesel Engine Armored Vehicles)</i>
Bachelor	Osaka University	1995	Mechanical System Engineering - <i>(High Speed Conveyor Controller: Multi Bridge System)</i>
Diploma	Universiti Teknologi Malaysia	1992	Mechanical Engineering
Certificate	Ungku Omar Polytechnic	1989	Mechanical Engineering (General)

D. KEMAHIRAN BAHASA*(Language Proficiency)*

Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English				/	
Bahasa Melayu					/
Indonesia			/		
Japanese		/			

E. KELAYAKAN PROFESIONAL/ AHLI/ GABUNGAN*(Professional Qualification/ Membership/ Affiliation)*

Committee Member, Society of Vibration and Acoustic Malaysia (SVAM), 2012 – now.
 Technical Committee, The International Conference on Advances in Noise, Vibration and Comfort (NVC), 2012.
 Review Board, 2012 IEEE Symposium on Business, Engineering and Industrial Application, 2012.
 Review Board, International Conference on Applications and Design in Mechanical Engineering 2012 (ICADME 2012), 2012
 Editorial Review Board, World Academy of Science, Engineering and Technology (Engineering and Applied Science Cluster), 2010 – now.
 Member, MSNT Acoustic Emission Interest Group (AEIG), Malaysian Society of Non-Destructive Test, 2011 – 2013.
 Yang Dipertua, Persatuan Ibubapa dan Guru, Sekolah Kebangsaan Kuala Sanglang, Perlis, 2011-2013.
 Scientific and Technical Committee, World Academy of Science, Engineering and Technology (Engineering and Applied Science Cluster), 2010 – now.
 Editorial Review Board, World Academy of Science, Engineering and Technology (Engineering and Applied Science Cluster), 2010 – now.
 Member, International Association of Engineers (IAENG), 2010 – now. Member No: 110302
 Senior Member, International Association of Computer Science and Information Technology (IACIST), 2010 – now.
 Senior Member No: 80339190
 Technical Member, The National Science and Mathematics Application Seminar (SKASM), 2010.
 Technical Committee, The Engineering National Postgraduate Conference, 2008.
 Member, Malaysian Society of Non-Destructive Test, 2007 – now. Member No: I6 2007
 Technical Committee, The Regional Conference on Engineering Mathematics, Mechanics, Manufacturing and Architecture, 2007.
 Technical Committee, The Regional Conference on Advances in Noise, Vibration and Comfort (NVC), 2007.

F. LANTIKAN*(Appointments)*

Student Affairs and Alumni Coordinator, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, Universiti Putra Malaysia, 2012-2014.
 Mentor, Immersion English Programme, Faculty of Engineering, Universiti Putra Malaysia, 2012 – now.

G. PEKERJAAN*(Employment)*

Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
Universiti Putra Malaysia	Senior Lecturer	Dept. of Mechanical and Manufacturing Engineering	1 Aug 2010	Now
Universiti Kebangsaan Malaysia	Post-Doctored	Dept. of Mechanical and Materials Engineering	01 July 2010	31 July 2010
Universiti Malaysia Perlis	Fellow	School of Manufacturing Engineering	01 Oct 2007	15 Dec 2010
Universiti Kuala Lumpur	Lecturer (Part-Time)	MFI	01 July 2007	30 Jun 2009
Universiti Selangor	Lecturer (Part-Time)	Faculty of Engineering	01 July 2007	30 Jun 2008
Malaysian Armed Forces	Officer(Technical A)	Royal Electrical & Mechanical Engineering Corps	29 Sept 1997	28 Sept 2007

Sharp Roxy (M) Sdn Bhd	Process Engineer	Dept. of Engineering	2 Mei 1995	31 Aug 1997
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H. ANUGERAH DAN HADIAH

(Honours and Awards)

Name of awards	Title	Award Authority	Award Type	Year
Academic Awards	Post-Graduate Student Fellowship (PhD)	MOHE	National	2007-2010
	Post-Graduate Student Scholarship (Master)	MARA	National	2001-2003
	Pre-Graduate Student Scholarship (Bachelor)	SHARP CORP	International	1993-1995
Non-Academic Awards	Medal of General Service (PPA)	Malaysian Federal Government	National	1998
Awards of Merit	Excellent Service	Ministry of Defence	National	2006
	Malaysian Army Commander Quality Awards	Malaysian Army HQ	National	2000

I. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan)

(List of publications – author (s), title, journal, volume, page and year published)

Journal	<p>1) Othman Inayatullah. Development Engine Condition Monitoring Technology Acoustic Emission Method. <i>Journal of Malaysian Army(Soratan Darat)</i> 44, 2004, p: 61-73</p> <p>2) Othman Inayatullah, Mohd Jailani Mohd Nor, Nordin Jamaludin, Taib Iskandar Mohamad. Determine the Location of the Acoustic Emission Sensor in Monitoring the Viscosity of the Diesel Engine Oil. <i>Journal of Technology</i> 49 (A), 2008, p: 19-38 (Scopus)</p> <p>3) Othman Inayatullah, Nordin Jamaludin, Mohd Jailani Mohd Nor, Yusoff Ali. Monitoring the Diesel Engine Oil Viscosity by Acoustic Emission Method: Part 2 – Relationship between Acoustic Emission Energy with Temperature of Engine Oil. <i>Journal of Technology</i> 49 (A), 2008, p: 55-76 (Scopus)</p> <p>4) Othman Inayatullah, Nordin Jamaludin, Mohd Jailani Mohd Nor, Fauziah Mat. Monitoring Viscosity of Diesel Engine Oil by Using Acoustic Emission Technique – Selection Measurement Parameters. <i>Journal NDT Spectra</i> 3, 2009, p: 60-68</p> <p>5) Othman Inayatullah, Nordin Jamaludin, Mohd Jailani Mohd Nor, Fauziah Mat. Development of Acoustic Emission Viscosity Model for Measuring Engine Oil Viscosity Relationship with Engine Oil In-Service Age. <i>Journal Japanese Society of Tribologists (Tribology Online)</i> 5 (6), 2010, p: 255-261 (ISI)</p> <p>6) Nordin Jamaludin, Othman Inayatullah, Mohd Jailani Mohd Nor, Fauziah Mat. Relationship Between Engine Oil Viscosity with Age and Temperature. <i>Sains Malaysiana</i> 40 (5), 2011, p: 509-513 (ISI)</p> <p>7) Mohammad Hosseini Fouladi, Mohd Jailani Mohd Nor, Othman Inayatullah, Ahmad Kamal. Evaluation of Seat Vibration Sources in Driving Condition Using Spectral Analysis. <i>Journal of Engineering Science and Technology</i> 6 (3), 2011, p: 342 -358 (Scopus)</p>
Books/Monographs	
Chapter in book	
Proceedings	<p>1) Fadzrul Rahimi Ahmad Bustami, Mohd Hanif Md Said, Mohd Jailani Mohd Nor, Bilkis Banu Aziz, Othman Inayatullah. <i>The Application of Short Time Fourier Transform and Image Processing Techniques To Detect Human Heart Abnormalities</i>. Proc. of The Int. Conference on Electrical Engineering Informatics Vol 1, 2007, pp 451-454. ISBN: 978-979-16338-0-2 (Jun 17-19, 2007 – Bandung Indonesia)</p>

- 2) **Othman Inayatullah**, Mohd Jailani Mohd Nor, Nordin Jamaludin, Fadzrul Rahimi Ahmad Bustami. *Monitoring the Viscosity Behavior of Lubrication in Diesel Engine Using Acoustic Emission*. The 4th Int. Post Graduate Research Colloquium, 2007. (Jun 19-20, 2007 – Bangkok, Thailand)
- 3) **Othman Inayatullah**, Mohd Jailani Mohd Nor, Nordin Jamaludin. *Monitoring the Changing of Engine Oil Viscosity by Acoustic Emission Method with Un-Direct Method*. Proc. of Post Graduate Research Seminar, 2007, pp 294-298. ISBN: 978-983-2982-15-9 (Aug 29-30, 2007 – Bangi, Malaysia)
- 4) N. Jamaluddin, M. J. Mohd Nor, **O. Inayatullah** & B. I. Suraya Murat. *Application of Acoustic Emission Technology to Monitoring the Lubrication Condition of a Diesel Engine of an Armored Fire Supporting Vehicle*. Proc. of The 6th Int. Conference on Acoustic Emission, 2007, pp 115-119. (Oct 29 – Nov 2, 2007 – Nevada, USA)
- 5) Mazian Mohammad, Mohd Hanif Mat Saad, **Othman Inayatullah**, Bibi I. Suraya Murat, Fauziah Mat. *Monitoring the Fluid Flow Condition through Different Surface's of Pipe by Acoustic Emission Technique*. Proc. Of The Regional Conference on Advances in Noise, Vibration and Comfort (NVC), 2007, pp 12-20. ISBN: 978-983-2982-17-3 (Nov 27-28, 2007 – Putrajaya Malaysia)
- 6) **Othman Inayatullah**, Mohd Jailani Mohd Nor, Nordin Jamaludin, Taib Iskandar Mohamad, Fadzrul Rahimi Ahmad Bustami, Fauziah Mat, Mazian Mohammad. *Monitoring the Lubrication Viscosity through Acoustic Emission Technique – Sensor Position's Implication*. Proc. Of The Regional Conference on Advances in Noise, Vibration and Comfort (NVC), 2007, pp 45-56. ISBN: 978-983-2982-17-3 (Nov 27-28, 2007 – Putrajaya Malaysia)
- 7) **Othman Inayatullah**, Mohd Jailani Mohd Nor, Nordin Jamaludin, Yusoff Ali, Fadzrul Rahimi Ahmad Bustami, Mazian Mohammad, Fauziah Mat. *Monitoring the Diesel Engine Oil Viscosity: Acoustic Emission Technique*. Proc. Of The Regional Conference on Advances in Noise, Vibration and Comfort (NVC), 2007, pp 57-67. ISBN: 978-983-2982-17-3 (Nov 27-28, 2007 – Putrajaya Malaysia)
- 8) Fadzrul Rahimi Ahmad Bustami, Mohd Hanif Md Said, Mohd Jailani Mohd Nor, Bilkis Banu Aziz, **Othman Inayatullah**. *The Application of Simultaneous Time Frequency ECG Display and Image Processing Technique to Monitor Human Heart*. Proc. Of The Regional Conference on Advances in Noise, Vibration and Comfort (NVC), 2007, pp 68-74. ISBN: 978-983-2982-17-3 (Nov 27-28, 2007 – Putrajaya Malaysia)
- 9) M. Fauziah, J. Nordin, **I. Othman**, M. Mazian, M. Bibi Intan Suraya. *Application of Acoustic Emission Technique to Monitoring the Lubrication Condition of Low Speed Bearing*. Proc. Of International Conference on Mechanical and Manufacturing Engineering (ICME), 2008. (May 21-23, 2008 – Johor Bahru Malaysia)
- 10) Fauziah Mat, Nordin Jamaludin, **Othman Inayatullah**, Mohd Noor Arib Md. Rejab. *Monitoring the Lubrication Condition on Low Speed Bearing with Load Influence*. Proc. of the Engineering Post Graduate Conference, 2008. (Oct 21-22, 2008 – Kajang Malaysia)
- 11) **Othman Inayatullah**, Nordin Jamaludin, Mohd Jailani Mohd Nor, Yusoff Ali, Wan Ramli Wan Daud, Fauziah Mat. *Application of Mathematical Viscosity (η_{math}) on Determine the Diesel Engine Oil Viscosity*. Proc. of National Science Application and Mathematic Seminar (SKASM), 2008, pp 159-166. ISBN:978-983-2963-81-3 (Nov 24-25, 2008 – Batu Pahat Malaysia)
- 12) Mohammad Hosseini Fouladi, Mohd. Jailani Mohd. Nor, **Othman Inayatullah** and Ahmad Kamal Ariffin. *Spectral Analysis Method for Vibration Source Evaluation in Moving Vehicle*. The 16 International Congress on Sound and Vibration (ICSV 16), 2009. (July 5- 9, 2009- Karkow Poland)
- 13) **Othman I**, Nordin J, Jailani M. M. N, Fauziah M. *New Method Estimate Diesel Engine Oil Viscosity: Acoustic Emission Viscosity (AEvisco)*. Proc. of International Conference on Applications and Design in Mechanical Engineering (ICADME), 2009. ISBN:978-967-5415-07-4 (Oct 11-13, 2009 – Pulau Pinang Malaysia)

	<p>14) Fauziah Mat, Othman Inayatullah, Zulkifli Mohamad Jais, Md Noor Arid Md Rejab. <i>A Study of Model Analysis to Determine the Mechanical Properties of Materials</i>. Proc. Of International Conference on Applications and Design in Mechanical Engineering (ICADME), 2009. ISBN:978-967-5415-07-4 (Oct 11-13, 2009 – Pulau Pinang Malaysia)</p> <p>15) I. Othman, J. Nordin, M. N. Mohd Jailani, M. Fauziah. <i>Development the Monitoring Technical of Engine Oil Viscosity by Acoustic Emission Viscosity Analysis (η_{ae}) Method</i>. Proc. of Seminar Nasional Kluster Riset Teknik Mesin (SemNas KRTM), 2009, pp 1-5. ISBN:978-632-95597-3-3 (Okt 13-14, 2009- Surakarta Indonesia)</p> <p>16) F. Mat, I. M. Abd Rahim, S. Yaacob, R. A. Siregar, O. Inayatullah. <i>Study for the Non-Destructive Testing of Material Mechanical Properties by Vibration Technique</i>. Proc. of 3rd Regional Conference on Advances in Noise, Vibration and Comfort (NVC), 2010, pp 73-80. ISBN: 978-983-2982-34-0 (June 28-30, 2010 – Putrajaya Malaysia)</p> <p>17) O. Inayatullah, S. Illias, M. S. A. Manan, N. Jamaludin, M. J. M. Nor, F. Mat. <i>Analyses Acoustic Emission Wave in Monitoring Engine Oil Viscosity: Amplitude Average Value (AAV)</i>. Proc. of National Science and Mathematics Application Seminar (SKASM) Jil. 4. Engineering Sciences, 2010, pp 361-366. ISBN:978-967-5457- 46-3 (Dec 8-12, 2010 – Johor Bahru Malaysia)</p> <p>18) S. Illias, O. Inayatullah, M. S. A. Manan, M. F. Ghazali and M. A. Idris. <i>Visual Studies of a Droplet Dispersion Behavior on Material Heated Surface</i>. Proc. Of National Science and Mathematics Application Seminar (SKASM) Jil. 1. Physic, Chemical & Biology, 2010, pp 75-84. ISBN:978-967-5457-43-2 (Dec 8-12, 2010 –Johor Bahru Malaysia)</p> <p>19) Othman Inayatullah, Aidy Ali, Nordin Jamaludin and Mohd Jailani Mohd Nor. <i>Application of Acoustic Emission Technique to Observer the Engine Oil’s Viscosity</i>. Proc. Of 2nd International Conference on Instrumentation, Control and Automation, 2011, pp 49-53. ISBN:978-1-4577-0/11 IEEE (Nov 15-17, 2011 – Bandung Indonesia)</p> <p>20) F. Mat, K.A. Ismail, S. Yaacob and O. Inayatullah. <i>Impact Response of Thin-Walled Tubes: A Prospective Review</i>. Regional Conference on Automotive Research (ReCAR) 2011, (Dec 14-15, 2011 - Kuala Lumpur Malaysia)</p> <p>21) Othman Inayatullah, Nordin Jamaludin, Mohd Jailani Mohd Nor, Fauziah Mat and Aziz Baharuddin. <i>Assessment Engine Oil using UKM Acoustic Emission Energy Viscosity Model (η_{EAEUKM})</i>. International Conference on Applications and Design in Mechanical Engineering 2012 (ICADME 2012), (Feb 27-28, 2012 - Penang Malaysia)</p> <p>22) F. Mat, R.A. Siregar, K.A. Ismail, S. Yaacob, M. Ahmad and O. Inayatullah. <i>Geometrical Effect on the Behavior of Circular and Elliptic Tubes under Dynamic Axial Loading</i>. International Conference on Applications and Design in Mechanical Engineering 2012 (ICADME 2012), (Feb 27-28, 2012 - Penang Malaysia)</p>
Other publications	
Computer software	

J. PROJEK PENYELIDIKAN TERDAHULU

(Past Research Project)

Project No.	Project Title	Role	Year	Source of fund	Status
05-05-11-1569RU	Application of acoustic emission technique to monitor the viscosity of single grade diesel engine lubricant oil	Main	2011-2012	RUGS UPM RM 28,000	Ongoing
03-01-12-1109FR	Modelling of Physical Properties of Semi and Fully Synthetic Engine Oil using Numerical Method based on the Relationship between Use Age and Temperature	Main	2012-2015	FRGS RM 46,000	Ongoing

K. PENYELIAAN PELAJAR

(Student Supervision)

PhD (Co-Supervisor)

1. Fauzan Djameluddin Pallajareng (GS29957), "Crashworthiness Optimization of Green Composite for Vehicle Component", ongoing.
2. Mazian Mohammad (P54548) UKM, "Development of Fatigue Failure Classification using Acoustic Emission Technology", ongoing.

Master Science (Main Supervisor)

1. Mahyar Heidari (GS32143), "Water Hammer Analysis of Transient Forces of Critical Joints and Supports of Pipeline", ongoing.

Master Science (Co- Supervisor)

1. Najihah Md Zain @ Abdul Rahman (GS30028), "Closed Loop Single Cylinder Equivalence Ratio Control System For Homogeneous Charge Compression Ignition (HCCI) Engine", ongoing.
2. Mohamad Zamin Mohamad Jusoh (GS30189), "The Mechanism of Mangrove Tree in Wave Energy Propagation", ongoing.

Bachelor of Engineering (Mechanical) (Main Supervisor)

1. Hew Wei Han (148600), "Assessment the material characterizes using vibration signal analysis during drill process without coolant", 2012.
2. Lee Wee Ming (148089), "Assessment the material characterizes using vibration signal analysis during drill process with coolant", 2012.
3. Vickneswaran Sinnasamy (149871), "Application of the vibration technique to monitor the condition of the lathe machine cutting tool in turning process of the alloy solid material", 2012.
4. Wang Siow Chin (148724), "Monitoring the engine oil viscosity using metal magnetic memory (MMM) technique via in-situ operation", 2012