

Curriculum Vitae

1. PERSONAL INFORMATION

Name : Assoc. Prof. Ir. Dr. Kumaran a/l Kadirgama
I/C Number : 810304-04-5123
Nationality : Malaysia
Date of Birth : 04 March 1981
Sex : Male
Race : India
Religion : Hindu
Marital Status : Single
Spoken Language: Bahasa Malaysia, English and Tamil
Present Position: Assoc. Prof,
Faculty of Engineering,
Universiti Malaysia Pahang (UMP).
Work Address : Faculty of Mechanical Engineering,
Universiti Malaysia Pahang,
Karung Berkunci 12, 25000 Kuantan,
Pahang Darul Makmur.
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Home Tel. No.: 09-5393597
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Scopus H-index : 19
(12761486500) :
Google Scholar
<https://scholar.google.com.my/citations?user=G8t1vnwAAAAJ&hl=en>
H-index : 25



2. EDUCATION

PhD (Mechanical Engineering) – University Tenaga Nasional (2011)
M. Eng (Mechanical Engineering) – University Tenaga Nasional (2006)
B.Eng. (Hons-Mechanical Engineering) – University Tenaga Nasional (2003)
Sek. Men. Seri Mahkota, Kuantan. (1994-98)
Sek. Keb.Batu Lapan, Kuantan. (1988-93)

3. CAREER HISTORY

Dec 2015 – Current : Professor Madya at University Malaysia Pahang (UMP)
Mei 2011 – Nov 2015 : Senior Lecturer at University Malaysia Pahang (UMP)
Jun 2015 – Jun 2017 : Appoint As Associate Researcher in Nelson Mandela
Metropolitan University (NMMU), South Africa
Mei 2010 – 2014 : Head of Biomechanical Programme, UMP
Jan 2008 – Mei 2011 : Lecturer at University Malaysia Pahang (UMP)

Feb 2005 – Dec. 2007 : Research .Asst, Universiti Tenaga Nasional
Feb 2004 – Jan. 2005 : Head of Department /Mechanical Engineer (Mould
Maintenance) at Maruwa Sdn.Bhd
Feb 2003 – Nov.2003 : Mechanical Engineer at Pahang Cement Sdn.Bhd (YTL)

4. Professional Associations

BEM – Graduate member (50427R)
IEM – Graduate member
IMECHE – Member (80203255), CEng (UK)
MQA Auditor (2012 – current)
Member IAENG (International Association of Engineers) -64580
ASME – Graduate member (100023402)
KPT BUDI committee (2011 – current)
Malaysian Automotive Institute (MAI)
Malaysian Society of Engineering and Technology (mSET No. 00241)
Member, International Association for Computational Mechanics (IACM)
Member, Malaysian Association of Computational Mechanic. (MACM)
Member, UMP Automotive Excellent Center
Member, IAENG Society of Artificial Intelligence (64580)
Member, ResearchGate Scientific Network. (64580)
Member, IAENG Society of Industrial Engineering (64580)
Member, IAENG Society of Mechanical Engineering (64580)
Member, American Communication Association, (ACA) (64580)
Member, IAENG Society of Operations Research (64580)
Member, IAENG Society of Scientific Computing (64580)
Judge/Panel Evaluator for Fac. of Mechanical Engineering Solidwork Competition,
Mar 2009
Standing Committee, mSET Admission, Accreditation, Examination & Certification
(mSET EAEC), 2009.

5. Government\Non-government Organization

Member of Mariaman Temple
Member of Kuantan Indian Association (KIA)

6. Journal Editorial Board

International Journal of Automotive & Mechanical Engineering (IJAME), (Founder),
Malaysia.
International Journal of Vehicle Structure: Design, Analysis & Optimisation
(IJVSDAO), India.
Engineering Letters, International Association of Engineers (IAENG).
News in Engineering

7. Journal & Paper Reviewer

Energy, Elsevier

Thermal Science, Elsevier

Applied Thermal science, Elsevier

Advanced Manufacturing Technology

International Journal of Engineering Education, (IJEE) Ireland.

International Journal of Automotive and Mechanical Engineering (IJAME) Malaysia

International Journal of Design and manufacturing ,Emerald

Jordan Journal of Mechanical & Industrial Engineering (JJMIE) Jordan

International Journal of Engineering Education, (IJEE) Ireland.

African Journal of Food Science, AJFS. Academic Journals, Africa.

International Journal of Vehicle Structure: Design, Analysis & Optimisation (IJVSDAO), Mechaero.

Open Industrial Journal

International Journal of Recent Trends in Engineering (IJRTE), Academy Publishers, Finland

Panel of Journal Reviewer for Mechanical Engineering Faculty, UMP.

Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET 2009), 20~22Jun, Ms Garden, Kuantan, Pahang, Malaysia.

Advanced Material Processing Technology (AMPT 08)International Conference on University Learning and Teaching (InCULT'08), 20~21Oct, UiTM Shah Alam, Malaysia.

Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET 2009), 20~22Jun, Ms Garden, Kuantan, Pahang, Malaysia.

National Conference of Post Graduate Research (NCON-PGR 2009), 1st Oct 2009, UMP.

Asia Pacific Defence & Security Technology Conference (DSTC 2009), Universiti Putra Malaysia, 6~7 Oct, Kuala Lumpur.

International Conference on Software Engineering and Computer Systems (ICSECS'09), 19~21Oct, Swiss Garden Resort & Spa, Kuantan, Pahang, Malaysia.

International Conference on Advances in Recent Technologies in Communication and Computing, (ARTCom'09), 27~28 Oct, IEEE-Computational Intelligence Society, India

International Conference on Advance Material Processing Technology (AMPT'09), 26~29 Oct, Legend Hotel, Kuala Lumpur, Malaysia.

UMP/USM Post Graduate Research Colloquium/Conference (PGRC 2009), 15~17 December 2009, Kuantan

The World Congress on Engineering (WCE 2010), 30 June - 2 July, London, U.K.

The International Multi-Conference of Engineers and Computer Scientists (IMECS 2010), 17-19 March, Hong Kong.

The World Congress on Engineering and Computer Science (WCECS2010), 20-22 Oct, San Francisco, USA.

The 4th World Engineering Congress 2010 (WEC2010), Conference on Aerospace and Mechanical Engineering, 2~5 August, Kuching, Serawak, Malaysia.

Session Chairperson, 2nd Regional Engineering Conference on Sustainable Engineering Infrastructures Development & Management (ENCON'08), 18-19 December 2008, Crowne Plaza Riverside Hotel, Kuching, Sarawak, Malaysia, 2008.

Session Chairperson, Malaysian Technical Universities Conference and Exhibition on Engineering and Technology (MUCEET'09), 20~22Jun, Ms Garden, Kuantan, Pahang, Malaysia, 2009.

Chairman – Organising Committee and Session Chairperson, National Conference of Post Graduate Research (NCON-PGR 2009), 1st Oct 2009, UMP.

Technical Committee, UMP/USM Post Graduate Research Colloquium/Conference (PGRC 2009), Dec'09, UMP.

Technical Committee, 4th World Engineering Congress 2010 (WEC2010), Conference on Aerospace and Mechanical Engineering, 2~5 August, Kuching, Serawak, Malaysia.

Technical comitee for ICMER 2013

Technical comitee for ICMER 2015

8. Administrative Committees Involved

Member, 2015 FKM EAC Task Force for BMM/BMA Accreditation, 2015

Head of biomechanical programme, 2010 to 2014

Member, 2013 FKM EAC Task Force for BMM/BMA Accreditation, 2013

Member, 2010 FKM EAC Task Force for BMM/BMA Accreditation, 2010-2011

Member, 2009 FKM EAC Task Force for BMM Accreditation, 2009 - 2010

Leader, FKM APEX15 Committee, (2008 to date)

Member, UMP Cendikia Bitara Award Main Committee, 2009

Leader, FKM Thermodynamics Laboratory, (2009 to date)

Technical Committee, Malaysian Technical Universities Conference and Exhibition

Member, UMP Research Committee, since 2009.

Advisor, ASME Student Club, (2009 to date)

Member, Committee for MoU Setup between UMP and Hicom Automotive Manufacturers Sdn Bhd.

Member and Founder UMP International Journal of Automotive and Mechanical Engineering (IJAME) Setup Committee (2009)

Member, UMP Automotive Excellent Center Auto News Bulletin Editorial Board (2009 to date)

Member, FKM ISO9001 Committee, (2008 to date)

Member, 2009 FKM Industrial Advisory Panel Committee Meeting, (Dec'08~Mar'09)

Member, 2009 FKM EAC Task Force for BMM Accreditation, Nov'08~Jul'09.

Member, FKM EAC Task Force for OBE Transformations. (Sept'08 to date)

Member, New Program, Biomechanics Feasible Analysis Committee, (Dec'08 ~ Mar'09)

Member, Setup Comm. UMP-DRB Hicom Automotive Institute, 2008 to 2009.

Member, Faculty Research and Postgraduate Committee, 2008 to date.

MeMember, Faculty Technical Committee (JKTF), Jan'08 to date.

9. Working Paper (Management)

Kertas Kerja Fakulti: Penganjuran UMP Research and Innovation Exhibition (UMPRIE 2009) untuk Fakulti Kejuruteraan Mekanikal, UMP, May 2009.

Kertas Kerja Fakulti: Perlantikan Panel Penasihat Industri (Industry Advisory Panel) untuk Fakulti Kejuruteraan Mekanikal, UMP, May 2009.

Kertas Kerja Fakulti: Penubuhan Empat Research Focus Group untuk Fakulti Kejuruteraan Mekanikal, UMP, May 2009.

Kertas Kerja Senat/Fakulti: Perlantikan Panel Penasihat Luar (External Examiner) untuk Fakulti Kejuruteraan Mekanikal, UMP, Mar 2009.

Kertas Kerja Universiti/Fakulti: Self Assessment Report for Bachelor of Mechanical Engineering accreditation application to Board of Engineer (BEM) thru Engineering Accreditation Council (EAC), Jan 2009.

Kertas Kerja Penerbitan International Journal Automotive And Mechanical Engineering (IJAME) Untuk Automotive Excellent Center (AEC), 2009

Kertas Kerja Penerbitan Bulletin Automotive Untuk Automotive Excellent Center (AEC), 2009

10. List of Consultation

Consultation for UIE-Solution Sdn Bhd: Finite Element Analysis for Storage Tank and Pressure Vessel Corrosion, RM12,900, Vot No. UIC080102, Researcher, Apr 2009.

Consultation for Huntsman Tioxide Sdn Bhd., Finite Element Study of Failure Analysis For 20 Meter Industrial Cooler Unit, Researcher, Vot No. UIC080102. RM19,100, Jan ~ Mar 2009.

Consultation: The Development of Fertilizer Mixer for Small Scale Mixing Process, Researcher, RM10,000, Vot No. UIC080102.

Consultation for MMC Oil and Gas Sdn Bhd., Modal Analysis of Transport Pipe (Mode Shape), Vot No. UIC080102. Researcher, Jan ~ Feb 2009. (Completed)

Petronas Carigali Angsi-B Crane B-7020 Structural Analysis. Researcher, Vot No. UIC080102, Petronas Carigali Sdn. Bhd. thru RIA Solution Sdn. Bhd. Apr ~ Aug 2008. (Completed)

11. POSTGRADUATE STUDENT SUPERVISION

<u>Name</u>	<u>Level</u>	<u>Title</u>
Mohammad Ashikur Rahman Khan	(Phd – Completed)	An Experimental Investigation And Modelling Of The Electrical Discharge Machining Performance On Titanium Alloys
Adnan Mohammed Hussein	(Phd – Completed)	Combined Forced And Natural Convective Heat Transfer From Cylinder Embedded In Saturated Porous Media
Haji Amiruddin Bin Kadir	(Phd – On Going)	Friction And Wear Analysis Of Nanolubricant On Engine
Benedict Foojs Choong Meng	(Phd – On Going)	Microalga Reactor For Lubrication
Hizanorhuda Zurgiba	(Phd – On Going)	Effect of nanofluids as coolant in the cooling system
Yogeswaran Muthusamy	A/L (Master – Completed)	Synthesis And Characterizing Of Green Machining Using Tio ₂ Based Nanocoolant
Lingenthiran Samylingam	A/L (Master – Completed)	Hybrid Fiber Composite For Knee Pad Development
Sakinah Muhammad Hisham	(Completed)	Waste Cooking Oil As Lubricant For Engine
Maizatul Asnida Hassan	(Completed)	Thermal Management of Vehicle Radiator by nanofluids
Arvind Kottasamy	(Completed)	Nanolubrication For Automotive Radiator
Mudather Bahreldeen Hamid Nour	(Master – On-Going)	Multiobjective Evolutionary Optimization On Performance Measures Of Minimum Quantity

Noor Safiqah Mohd Sahid	(Master – On-Going)	Lubricant In Grinding Processes Investigation of nanolubricant performance characteristics for friction reduction application
Nur Syawanie Manam	(Master – On-Going)	Design fabrication of dental alloy using direct metal laser sintering

12. List of thesis Examiner

Name	Level	Title
Nurhidayah	Master thesis	Machining of hastelloy Haynes22
Fauzlina	Master thesis	Sintering of Aluminium and tool steel
Najihah	PhD thesis	MQL Nano lubrication when machining titanium
Adib Anuar	Master thesis	Vibration and chatter analysis when machining titanium alloy
Nurhidayah Razak	PhD thesis Auckland University	Grain analysis on the carbide tools
Prasand kumar	PhD thesis Annamalai University	Nanocoolant as an alternative fuels
Seshi Kumar	Master thesis	Numerical analysis of nanolubricant on the heat performance

13. List of Research / Project

Grant. No	Title	Role	Status	Value
GRS150307	TRIBOLOGICAL BEHAVIOUR OF WASTE COOKING OIL AS BIOLUBRICANT FOR INTERNAL COMBUSTION ENGINE	LEADER	ON-GOING	10,000
NPRP8-876-2-375	DIRECT METAL LASER SINTERING TECHNOLOGY FOR THE MANUFACTURE OF FULLY POROUS FUNCTIONALLY GRADED TITANIUM ALLOY FEMORAL STEMS (QATAR NATIONAL FUND)	LEADER	ON-GOING	2,710,000
GRS150309	INFLUENCE OF WASTE COOKING OIL AS BIOLUBRICANT ON WEAR AND FRICTION BEHAVIOUR OF ALUMINIUM AGAINST STAINLESS STEEL	LEADER	ON-GOING	10,000
RDU1403134	HYBRID NANOPARTICLES WITH ETHYLENE	LEADER	ON-GOING	38,000

RDU130129	GLYCOL FOR CAR RADIATOR APPLICATION DEVELOPMENT AND CHARACTERISTICS OF WASTE COOKING OIL AS BIO -LUBRICANT AND NANO-LUBRICANT AT HIGH TEMPERATURE (FRGS)	LEADER	ON-GOING	55,000
RDU130393	CHARACTERISTION OF ENGINE OIL WITH NANO PARTICLE AS AN ADDITIVES	LEADER	ON-GOING	36,000
RDU131205	WATER BASED NANO COOLANTS (MTUN GRANT)	LEADER	COMPLETED	44,000
RDU130313	DEVELOPMENT OF FUEL TESTING SYSTEM ON CHASSIS DYNAMOMETER FOR COMPRESSED NATURAL GAS DIRECT INJECTION POWERED VEHICLE	LEADER	ON-GOING	37,000
RDU110373	DEVELOPMENT OF TOOL-LIFE PERFORMANCE MODEL FOR MOLD AND DIE USING NEAR DRY MACHINING TECHNIQUE	LEADER	COMPLETED	36,000
RDU110326	SURFACE IMPREGNATION/MODIFICATION USING NANOMATERIALS FOR ENHANCED MECHANICAL PROPERTIES OF METAL SURFACES	LEADER	COMPLETED	37,000
RDU0903126	AN INVESTIGATION OF WIND POWER POTENTIAL AT KUALA PAHANG, PEKAN.	LEADER	COMPLETED	40,000
RDU090202	DESIGN AND DEVELOP BLOW MOULD USING MACHINING OPTIMIZATION PARAMETERS	LEADER	COMPLETED	34,000
RDU090374	OPTIMIZATION OF GRINDING WHEEL PARAMETERS WITH INTELLIGENT TECHNIQUES	LEADER	COMPLETED	35,000
RDU080324	STATISTICAL AND ARTIFICIAL INTELLIGENT STUDY TO DETERMINE THE EFFECT OF MILLING PARAMETERS ON CUTTING FORCE, STRESS AND SURFACE ROUGHNESS WHEN MILLING ALUMINIUM AND NICKEL SUPERALLOY	LEADER	COMPLETED	35,000
RDU080502	DEVELOPMENT OF A DESIGN EVALUATION SYSTEM SOFTWARE FOR HOME APPLIANCES REMANUFACTURING (E-SCIENCE)	LEADER	COMPLETED	95,000
RDU150338	PROGRESSIVE WEAR IN SUSTAINABLE MACHINING OF COBALT CHROMIUM ALLOY USING CUTTING INSERTS OF DIFFERENT COATING MATERIALS	MEMBER	ON-GOING	33,000
RDU1403126	IMPACT BIODIESEL FUEL CHARACTERISTICS ON ULTRA-LOW EMISSION HOMOGENEOUS CHARGE COMPRESSION IGNITION ENGINE	MEMBER	ON-GOING	31,000
RDU1403124	VALVE WEAR ANALYSIS WITH NANO COATING FOR COMPRESSED NATURAL GAS (CNG) ENGINE (FRGS)	MEMBER	ON-GOING	77,000
RDU1403110	FUNDAMENTAL STUDY OF THERMO-PHYSICAL PROPERTIES AND FORCED CONVECTION HEAT TRANSFER RATE BIOGLYCOL BASED NANOFLUIDS COOLANT	MEMBER	ON-GOING	35,000
RDU140116	MULTIAXIAL MODELLING OF LIGHTWEIGHT SANDWICH STRUCTURES BASED ON CORRUGATED-CORES FOR AEROSPACE APPLICATION (FRGS)	MEMBER	ON-GOING	65,000
RDU140104	ENHANCED DRIVER SEATING COMFORT IN A SMALL SIZE CAR THROUGH DIGITAL HUMAN MODELLING(DHM)AND PRESSURE MAPPING METHOD (FRGS)	MEMBER	ON-GOING	78,000
RDU140125	ENGINE VALVE SEAT WEAR STUDY ON COMPRESSED NATURAL GAS (CNG)BY USING NANO POWDER	MEMBER	ON-GOING	34,000
RDU140377	DEVELOPMENT OF A SMART CUTTING TOOL FOR SUSTAINABLE MACHINING OF NICKEL BASED ALLOYS FOR THE APPLICATION TO TURBOCHARGER MANUFACTURING	MEMBER	ON-GOING	33,000
RDU140502	DEVELOPMENT AN OLYMPIC SCALE OF RECURVE BOW AND ARCHERY FOR LOCAL JUNIOR ATHLETES UNDER 15 AND 17 (U-15 AND U-17)	MEMBER	ON-GOING	31,000
RDU140354	DEVELOPMENT OF TITANIUM MANGANESE ALLOYS FOAMS FOR BIOMEDICAL APPLICATIONS BY METAL INJECTION MOLDING	MEMBER	ON-GOING	34,000
RDU1303121	A LOW COST FORCE DYNAMOMETER FOR PRECISION MACHINING OF AUTOMOTIVE	MEMBER	ON-GOING	34,000

	CYLINDER HEAD			
RDU1303127	DEVELOPMENT OF MULTIAXIAL FATIGUE MODELLING FOR LIGHTWEIGHT AUTOMOTIVE SUSPENSION COMPONENTS (FRGS)	MEMBER	ON-GOING	127,000
RDU130146	MULTIAXIAL FATIGUE MODELLING FOR SAFETY-CRITICAL LIGHTWEIGHT AUTOMOTIVE SUSPENSION COMPONENTS	MEMBER	ON-GOING	34,000
RDU1303110	THREE-DIMENSIONAL (3D) MODELLING OF HUMAN AIRWAY USING FLUID STRUCTURE INTERACTION (FSI) TECHNIQUE	MEMBER	ON-GOING	31,000
RDU1303107	MODELLING OF VEHICLE SEAT FOR HUMAN COMFORT OF A SMALL SIZE PASSENGER CAR (K-CAR)	MEMBER	ON-GOING	32,000
RDU130131	FUNDAMENTAL STUDY OF JATROPHA BIODIESEL OIL ON ULTRA-LOW EMISSION HOMOGENEOUS CHARGE COMPRESSION IGNITION ENGINE COMBUSTION (FRGS)	MEMBER	ON-GOING	96,000
RDU1303108	DEVELOPMENT AND ANALYSIS OF BOW AND ARROW FOR MALAYSIAN ATHLETE	MEMBER	ON-GOING	31,000
RDU130134	THE EFFECT OF STEAM INJECTION ON POWER AND EMISSION OF HYBRID AIR-DIESEL ENGINE USING STEAM INJECTOR (FRGS)	MEMBER	ON-GOING	136,000
RDU130391	FUNDAMENTAL STUDY OF EG BASED NANOFLUIDS FOR APPLICATION IN AUTOMOTIVE COOLING SYSTEM	MEMBER	COMPLETED	32,000
RDU121408	NANO PARTICLE'S HEAT TRANSFER CHARACTERISTICS IN REFRIGERATION AND AUTOMOTIVE AIRI CONDITIONING SYSTEMS FOR REDUCTIION OF ENERGY CONSUMPTION (RAGS)	MEMBER	COMPLETED	76,000
RDU120104	POTENTIAL OF INTEGRATED CHATTER AVOIDANCE AND MINIMUM QUANTITY LUBRICATION CONDITION IN MACHINING PROCESS (FRGS)	MEMBER	COMPLETED	80,000
RDU120310	NANOPARTICLE BASED COOLANTS IN GRINDING PROCESSES FOR AUTOMOTIVE INDUSTRY COOLING APPLICATIONS	MEMBER	COMPLETED	31,000
RDU110702	DEVELOPMENT OF HIGH PERFORMANCE SPORTS SHOES AND KNEE PAD FOR MALAYSIAN ATHLETES (KPT)	MEMBER	COMPLETED	300,000
RDU110336	DEVELOPMENT OF NEW LUBRICANT DISPERSED WITH NANOPARTICLES	MEMBER	COMPLETED	33,000
RDU110110	MINIMUM QUALITY LUBICATION TECHNIQUE FOR END MILL TO ENHANCE MACHINABILITY OF ALUMINUM ALLOYS	MEMBER	COMPLETED	35,000
RDU100387	CHARACTERIZATION OF HEAT TRANSFER PROCESS FOR HYDROGEN FUELED INTERNAL COMBUSTION ENGINE	MEMBER	COMPLETED	40,000
RDU100380	MACHINING OF NICKEL SUPERALLOY MATERIAL USING NANOFLUID AS COOLANT FOR LIGHT ALLOY PISTON	MEMBER	COMPLETED	40,000
RDU100108	HYBRID OPTIMIZATION MODEL TO ENHANCED THE MACHINABILITY OF TITANIUM ALLOYS (FRGS)	MEMBER	COMPLETED	130,000
RDU100351	MODELLING OF THERMAL COMFORT AND PRODUCTIVITY IN AUTOMATIVE INDUSTRIES	MEMBER	COMPLETED	28,000
RDU100323	DEVELOPMENT OF ONLINE MACHINING CONDITION SYSTEM: AN ACOUSTIC EMISION APPROACHED	MEMBER	COMPLETED	40,000
RDU0903131	INVESTIGATING OF MICROMACHINING OF SILICON USING MICRO EDM	MEMBER	COMPLETED	40,000
RDU0903125	DEVELOPMENT OF REVETEC ENGINE CAM FOR INTERNAL COMBUSTION ENGINES	MEMBER	COMPLETED	40,000
RDU0903100	HEAT TRANSFER AUGMENTATION WITH ALUMINIUM OXIDE NANOFLUID IN A PLAIN TUBE AND WITH INSERTS	MEMBER	COMPLETED	33,000
RDU090398	ACCURACY OF STAINLESS STEEL THICK PLATES IN PERIPHERAL MACHINING	MEMBER	COMPLETED	36,000
RDU090201	A NOVEL AND FLEXIBLE SOLAR CAR KIT FOR EDUCATIONAL USE	MEMBER	COMPLETED	31,000
RDU090203	INVESTIGATION OF REFRIGERATOR PERFORMANCE USING EXPERIMENTAL AND SIMULATION METHOD	MEMBER	COMPLETED	32,000

RDU090367	DEVELOPMENT OF MICRO-EDM WITH MICROACTUATOR FEED CONTROL SYSTEM	MEMBER	COMPLETED	34,000
RDU090372	DESIGN AND DEVELOPMENT OF A LIFT SYSTEM FOR DIASABLE PEOPLE	MEMBER	COMPLETED	32,000
RDU090394	EXPERIMENTAL INVESTIGATION OF MACHINING PERFORMANCE OF NEAR DRY AND POWDER MIXED DIELECTRIC (PMD) ELECTRICAL DISCHARGE MACHINING (EDM) ON TITANIUM ALLOYS	MEMBER	COMPLETED	32,000
RDU090366	DEVELOPMENT OF MICROPUMP IN FUEL CELL APPLICATION USING MICRO ELECTRO-MECHANICAL SYSTEM (MEMS) MACHINING METHOD	MEMBER	COMPLETED	40,000

14. Exhibition/Award

No.	Title Award	Committee	Level
	Who Who's in the World for 2009	Marquis	International
	2000 Outstanding Intellectuals in 21 st Century	American Biographical Institute	International
	Great mind of 21 st Century	American Biographical Institute	International
	Represent Malaysia as an Ambassador in World Forum 2009	American Biographical Institute	International
	Deputy Director General for Asia region	International Bibliography Center (IBC), Cambridge	International
	Honorary Doctorate of Letter	International Bibliography Center (IBC), Cambridge	International
	Anugerah Perkhidmatan Cemerlang, 2008	Universiti Malaysia Pahang	National
	Anugerah Perkhidmatan Cemerlang, 2012	Universiti Malaysia Pahang	National
	Final nominee for Malaysia Young Scientist, 2012	MOSTI	National
	Won Best Malaysia Team Award, 2013 Shell Eco Marathon	Shell	International
	Bronze – Title: Design and Development of Blow Mould using Machining Optimization Parameters	19 th International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX08)	International
	Bronze – Title: Design and	Malaysian	National

Development of Blow Mould Using Genetic Algorithms	Technology Expo	
Bronze – Title: Little Mantis: Short Mobility Electric Scooter Development	Malaysian Technology Expo	National
Gold – Title: Motorized Cutter for Harvesting Plant	Malaysian Technology Expo	National
Bronze – Title: Motorized Cutter for Harvesting Plant	GENEVA	International
Bronze – Title: CarJack Using Internal Car Power	20th International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX09)	International
Silver – Title: A New Machining Mould Algorithm based on Response Ant Colony (RACA)	20th International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX09)	International
Silver – Title: Spring Activated Pole (SAP)	20th International Invention, Innovation, Industrial Design & Technology Exhibition (ITEX09)	International
Silver – Title: Multi-Axial Fixing Elements (MAFE) an Innovative Product to Effectively Manage Most Clinically Unstable Situation of the Bone	Ministry of Higher Education, International Exposition of Research and Development of Institute of Higher Learning 2009 (PECIPTA '09)	National
Bronze – Title: New Technique for Laser-Micromachining of MEMS Components	Ministry of Higher Education, International Exposition of Research and Development of Institute of Higher	National

				Learning 2009 (PECIPTA '09)	
Gold	-	Nanocoolant	for	ITEX12	International
Automotive		and	Industry		
application					
Silver	-	Nanocoolant	for	SIFF12	International
Automotive		and	Industry		
application					
Cendekia Bitara Merit Award				Universiti Malaysia Pahang	National
Journal Publication, 2009					
Cendekia Bitara Merit Award for				Universiti Malaysia Pahang	National
Research Product, 2009					
Cendekia Bitara Merit Award				Universiti Malaysia Pahang	National
Journal Publication, 2010					
Cendekia Bitara Award			Journal	Universiti Malaysia Pahang	National
Publication, 2010					
Cendekia Bitara Merit Award				Universiti Malaysia Pahang	National
Journal Publication, 2011					
Cendekia Bitara Merit Award				Universiti Malaysia Pahang	National
Journal Publication, 2012					
Cendekia Bitara Award				Universiti Malaysia Pahang	National
Product, 2012					
Cendekia Bitara Award				Universiti Malaysia Pahang	National
Publication, 2013					

15. Patent

Blow mould shell, MY-143846-A, 2012

Method and System for Enhancing Moulding Machining Performance. PI20093258, 2009

Car Jack Assembly and Method, PI20093259, 2009

Method and System for Determining End of Life Strategy for Products, PI20095013, 2009

Nanocoolant for manufacturing and automotive application, PI20106510

16. Research Interests

- Nanofluid
- Heat transfer
- Machining operation
- Nontraditional Machining Operations
- Optimization of Manufacturing Processes
- Artificial Intelligent in Manufacturing Process

17. TEACHING ASSIGNMENTS (Undergraduate and Postgraduate)

- Mechanics II : Dynamic tutorial (30 students)
- Mechanics of Materials Lab
- Manufacturing Process Lab
- Thermodynamic 2 (BMM 2523 2007/2008 – 6 credit (240 students))
- Thermodynamic 1 (BMM 2513 2007/2008 (short semester) – 6 credit (30 students))
- Thermodynamic 1 (BMM 2513 2008/2009 – 6 credit (242 students))
- Thermodynamic 2 (BMM 2523 2008/2009 – 6 credit (242students))
- Industrial Engineering(BMM3633 2008/2009 - 3 credits (225 Students))
- Thermodynamic 2 (BMM 2523 2008/2009 (short semester) – 6 credit (30 students))
- Thermodynamic 1 (BMM 2513 2009/2010 – 6 credit (261 students))
- Product Planning Control (BMM 4703 2009/2010 – 3 credit)
- Fundamental of Engineering (BMM1011 2009/2010 – 3 credit)
- Engineering Materials (BMM 1523 2009/2010 – 3 credit)
- Final Year Project 1(BMM3912 - 2 credits)
- Final Year Project 2 (BMM3923 - 4 credits)
- Industrial Training (BMM4999 - 9 credit)
- Industrial Training Report (BMM4993 – 3 credit)
- Computer Aided Engineering (BMM 2011 – 2credit)
- Quality Enviromental Management System (BMM 2021 – 2 credit)
- Quality Engineering (BMM 4627 – 4 credit)
- DFMA (BMM 4626 – 4 credit)
- Mechanical System Design (BMM 4623 – 4 credit)
- Precision Engineering (MKM 1243)
- Mechanical Engineering Design (MME 6143)

18. Computer & Programming Skill

- | | |
|---------------------------|----------|
| • Autocad | Advanced |
| • Catia | Advanced |
| • Cam | Advanced |
| • Fotran | Advanced |
| • Neuron solution | Advanced |
| • Minitab | Advanced |
| • Finite Element Analysis | Advanced |

19. STRENGTH

- Optimization
- Dynamic team player
- Sense of responsibility

- Highly inquisitive
- Creative and resourceful
- Excellent skills in communication and collaboration

20. International Journal papers (2016 – 2018)

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