CURRICULUM VITAE

PERSONAL DETAILS

Name : Mohd Farid bin Muhamad Said
Title : Associate Professor, Dr.
Gender : Male
Date of Birth : 14 May 1978
Nationality : Malaysian
Marital Status : Married
Address : Department of Aeronautics, Automotive & Ocean Engineering, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor Bahru

Tel : (Mobile): 019-6681405 (Office): 07-5535449 (Fax): 07-5535811
E-mail : mdfarid@utm.my, mfarid@mail.fkm.utm.my
Website : http://people.utm.my/mfarid/

Expertise/ Field of Interest:

Internal Combustion Engine, Biofuel, Engine & Vehicle Simulation Analysis, Droplet and Particle Characterization, Underwater Vehicle

ACADEMIC QUALIFICATIONS

2011	:	Doctor of Philosophy (PhD in Mechanical Engineering) University of Leicester, United Kingdom
2006	:	Master Degree (by Research in Mechanical Engineering) Universiti Teknologi Malaysia, Johor
2001	:	Bachelor Degree (Mechanical Engineering) Universiti Teknologi Malaysia, Johor
1999	:	Diploma in Mechanical Engineering Universiti Teknologi Malaysia, Kuala Lumpur

AWARD AND HONORS RECEIVED

July 2018 : Citra Karisma - Excellent Service Award, UTM, Johor

July 2018 : Best Paper Award - The 3rd International Conference on Automotive Innovation and Green Energy Vehicle (AiGEV 2018), Kuantan, Malaysia

Oct 2017 : Best Paper Presentation - The 2nd International Tropical Conference Renewable Energy Conference (The 2nd i-TREC), Nusa Dua Bali, Indonesia

Nov 2015 : Best Paper Presentation - The 8th International Meeting on Advanced Thermofluids (IMAT2015), Jakarta, Indonesia

June 2014 : Citra Karisma - Indexed Journal Author Award, UTM, Johor

Nov 2013 : Best Paper Award - The 6th International Meeting on Advanced Thermofluids (IMAT2013), NUS, Singapore

July 2012 : Citra Karisma - Excellent Service Award, UTM, Johor

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

Membership

Nov 2012 – Present : American Society of Mechanical Engineers, ASME, (Membership No: 000100373972)

Mar 2012 – Present : The Institution of Engineers Malaysia, IEM Graduate Member, (Membership No: 51724)

July 2006 – Present : Society of Automotive Engineers, SAE, (Membership No: 6113350421)

June 2004 : Board of Engineers Malaysia, BEM Graduate Engineer, (Registration No: 43726)

Recognition

Sept 2018	: Keynote Speaker for the 10th National Technical Seminar on Underwater System Technology 2018 (NUSYS'18), Universiti Malaysia Pahang, Malaysia.
May 2017 – Apr 2018	: Appointed as an Associate to Malaysia Automotive Institute (MAI)
Oct 2016	: Selected for UTMShine program
Feb 2015 – Mar 2015	: Involve in research activity during the UTM Antarctica Expedition.
July 2009	: Represent University of Leicester in poster presentation at the Vitae's Regional Competition, University of Nottingham, UK
June 2009	: Top 10 for poster presentation at the Festival of Postgraduate Research in University of Leicester, UK

ADMINISTRATIVE EXPERIENCE

Faculty Level

Sept 2018 – Sept 2020	: Appointed as Research & Innovation Committee Member, School of Mechanical Engineering, UTM Johor Bahru.
Apr 2017 – Apr 2019	: Appointed as FKM Publication and Conference Committee Member, Faculty of Mechanical Engineering, UTM Johor Bahru.
Jan 2017 – Jul 2017	: FKM Alumni Dinner 2017 Committee Member, Faculty of Mechanical Engineering, UTM Johor Bahru.
Oct 2015 - Present	: Short Course Coordinator, Automotive Development Center (ADC), UTM Johor Bahru.
Nov 2014 – Nov 2015	: Appointed as E-learning Committee Member of Faculty of Mechanical Engineering, UTM Johor Bahru.
April 2014	: Appointed as Assessment Panel of Mock Interview Program (How to get yourself employed) for Faculty of Mechanical Engineering, UTM Johor Bahru.

Feb 2012	: Appointed as FKM Family Day Committee Member, Faculty of Mechanical Engineering, UTM Johor Bahru.

University Level

Mar 2019 – Dec 2020	: Appointed as a UTM ENVISION 2025 Workforce Committee, UTM Johor Bahru.
Oct 2018 - Sept 2021	: Director, Automotive Development Centre (ADC), UTM Johor Bahru.
Sept 2018 – Sept 2020	: Appointed as Chief Editor, Journal of Transport System Engineering (JTSE), UTM Johor Bahru.
Oct 2017 - Sept 2018	: Deputy Director, Automotive Development Centre (ADC), UTM Johor Bahru.
April 2018	: Associate Professor, UTM Johor Bahru.
Jan 2014 – Dec 2017	: Advisor, Society of Automotive Engineers (SAE) Student Club, UTM Johor Bahru.
Jan 2014 - Apr 2014	: Technical Advisor for UTM team, in the IET/MATE Hong Kong Underwater Robot Challenge 2014.
Jan 2012 – Oct 2012	: Assistant Manager for UTM team, in the PROTON Green Mobility Challenge (PGMC).

Community Level

Mac 2019 – Feb 2021	: Chairman, Persatuan Kebajikan Penduduk Flora Ville, Taman Pulai Flora, Johor Bahru
Nov 2017 – Dec 2017	: Technical Expert, Sekolah Menengah Kebangsaan Seri Perling, Johor Bahru, for the World Championship Land Rover 4x4 (Remote Control).
Jan 2015 – Feb 2019	: Assistant Secretary, Persatuan Kebajikan Penduduk Flora Ville, Taman Pulai Flora, Johor Bahru

OTHERS EXPERIENCE

NATIONAL COMMITTEE

May 2017 – April 2018 : Appointed as an Associate to the Malaysia Automotive Institute (MAI)

Sept 2011 – Feb 2012 : Member of the Technical Committee on the Curriculum Development of Diploma Automotive Program for Jabatan Pengajian Kolej Komuniti.

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RESEARCH ACTIVITIES

Role: Project Leader

No	Year	Vot No.	Title	Approved Amount (RM)	Funding Institution
1	Dec 2018 – Nov 2021	06G95	*Enhancement of Electric Vehicle (EV) Driving Distance by Implementing Range Extender (REx) Module with Better Control Strategy and Energy Management Systems. (***Program Leader***)*	220,000	UTM-TDR Transdiciplinary Research Grant
2	Dec 2018 – Nov 2020	06G97	*Conversion of Compression Ignition (CI) Engine to Homogenous Charge Compression Ignition (HCCI) Engine for Range Extender Electric Vehicle (REEV) Application. (***Project Leader***)*	(100,000)	UTM-TDR Transdiciplinary Research Grant
3	July 2017 – June 2019	17H17	*Performance Optimization of a Standard Production SI Engine for Competion Application*	40,000	UTM (Tier 1)
4	Dec 2016 – May 2019	03G64	*Investigation of Exhaust Muffler Parameters on the Acoustic Performance*	50,000	UTM Flagship (UTMShine)
5	Aug 2016 – Jan 2019	4F884	*Newly Effective Resonators of a Gasoline Engine for Low Intake Noise Emissions*	112,000	MOHE (FRGS)
6	July 2016 – Sept 2017	13H88	*Development of On-line Particle Characterisation Device based on Image Analysis Technique*	50,000	UTM (Tier 1)
7	July 2015 – Sept 2017	4L655	*Development of Remotely Operated Underwater Vehicle for Observation and Scientific Applications*	191,000	MOHE (PRGS)

8	July 2014 – Sept 2015	08H93	*Experimental Investigation of Spark Ignition Engine Fuelled with Low Carbon Fuels*	20,000	UTM (Tier 1)
9	Apr 2014 – Sept 2015	01G53	*Cylinder Deactivation And Valve Deactivation Technology For Fuel Saving In Malaysian Urban Drive Cycle*	50,000	UTM (Flagship)
10	Apr 2013 – Sept 2015	4F174	*Fundamental Investigation of the Cylinder Deactivation Technique to Improve Throttling Effect, Fuel Economy and Exhaust Emission of Four Cylinders Spark Ignition Engine*	122,400	MOHE (FRGS)
11	Apr 2013 – Sept 2014	00G93	*Design of Remotely Operated Underwater Vehicle*	19,650	UTM (Flagship)
12	Oct 2013 – July 2014	00G54	*Performance Characterization of Green Diesel*	223,000	UTM (Flagship)
13	Dec 2012 – Dec 2013	07J26	*Design Improvement of Engine Subsystems for Better Fuel Consumption*	40,000	UTM (Tier 2)
14	Mar 2012 – Feb 2013	4P040	*Modelling of a Single Cylinder Diesel Engine for Bio-fuel Performance using 1D Engine Simulation Software*	20,000	UTM (New Academic Staff)
TOTAL				**1,158,050**	-

INTELECTUAL PROPERTY

Patern

1. **Mohd Farid Muhamad Said**, Ali Ghanaati, Intan Zaurah Mat Darus, *Method for Determining the Octane Number of a Fuel* - (IP Status: *Patent Pending*), (Filling No: *PI 2017704599*)

Industrial Design

1. **Mohd Farid Muhamad Said**, Saiful Anuar Abu Bakar, *Underwater Remotely Operated Vehicle* (IP/ID/2018/0468), (IP Status: Invention Disclosure)
2. Henry Nasution, **Mohd Farid Muhamad Said**, Azhar Abdul Aziz, Sumeru Kasni, *Expansion Device for Air Conditioning Unit* - (D100-00007), (IP Status: Approved)

Copyright

1. **Mohd Farid Muhamad Said**, *Image Processing Algorithm for Back-lighted Dynamic Solid Particles* - (IP Status: *copyright*), (Filling No: *LY2018006125*)

TEACHING ACTIVITIES

Semester	Sem	Subject Code	Subject	Credit Hour	Total Student
2018/2019	2	SKMM4413	Internal Combustion Engine	3	38
2018/2019	1	SKMM2413	Thermodynamics	3	30
2017/2018	2	SKMM4413	Internal Combustion Engine	3	34
2017/2018	1	SKMM2413	Thermodynamics	3	34
2016/2017	2	SKMV3413	Internal Combustion Engine	3	21
2016/2017	1	MKMV1403	Internal Combustion Engine	3	1
		SKMM3931	Laboratory II (Machine)	1	49
		SKMM2921	Laboratory I (Thermodynamic)	1	32
2015/2016	2	SKMV3413	Internal Combustion Engine	3	28
2015/2016	1	SKMM2413	Thermodynamics	3	15
		SKMM2921	Laboratory I (Thermodynamic)	1	24
2014/2015	2	SKMV3413	Internal Combustion Engine	3	20
2014/2015	1	SKMM2433	Applied Thermodynamics & Heat Transfer	3	6
2013/2014	2	SKMV3413	Internal Combustion Engine	3	36
2013/2014	1	SKMM1922	Introduction to Mechanical Engineering	2	23
		SKMM3931	Laboratory II (Thermodynamic)	1	29
		SKMM3931	Laboratory II (Thermodynamic)	1	32
2011/2012	2	SME2921	Laboratory II (Material)	1	28
		SMC3942	Automotive Laboratory	2	48
		SME3942	Laboratory IV (Machine)	2	59
2011/2012	1	SME3931	Laboratory III (Fluid)	1	38
		SME3931	Laboratory III (Material)	1	30
		SMC4013	Automotive Engineering System	3	51
2007/2008	1	SMC4013	Automotive Engineering System	3	47
		SMV5513	Automotive Design I	3	14
		SMC3012	Automotive Technology	2	49
TOTAL CREDIT HOUR				**58**	-

SUPERVISION

PhD Student

No	Registered Year	Name	Status	Title	Roles of Supervision
1	2017	Ibham Veza	On-going	A Performance, Combustion and Emission Study on HCCI Engine Fuelled with Biobutanol	Main Supervisor
2	2017	Karunakaran K. Karthigeyan	On-going	New Effective Remote Operation System using Unmanned Aerial Vehicles for Painting at Elevated Heights Building	Main Supervisor
3	2016	Khairuldean bin Abdul Kadir	On-going	Newly Effective High Performance Resonators and Muffler of a Gasoline Engine for Low Exhaust Noise Emissions	Main Supervisor
4	2016	Mohd Anuar bin Mohd Yusoff	On-going	Control/Improving of Heat Efficiency on Gasoline Turbocharge Engine Cooling System using Electric Water with Split Cooling Method	Main Supervisor
5	2016	Afiq Aiman bin Dahlan	On-going	Investigation of Intake Resonators of Natural Aspirated Gasoline Engine for Low Noise Emissions.	Main Supervisor
6	2013	Mostafa Mohebbi	Graduated (2019)	Reactivity Controlled Compression Ignition Combustion in a Light Duty Diesel Engine using Alternative Fuels	Main Supervisor
7	2012	Ali Ghanaati	Graduated (2017)	Adaptive Model-Based Spark Advance Control	Co-Supervisor

				for Anonymous Fuel and Engine Actuators	
8	2011	Nur Hamzah bin Said	Graduated (2018)	Heterogeneous Catalyst Microwave Assisted Production of Biodiesel Fuel for Compression Diesel Engines	Co-Supervisor
9	2010	Amin Mahmoudzadeh Andwari	Graduated (2014)	Investigation on Combustion Characteristics of A Controlled Auto-Ignition (CAI) Two-Stroke Engine	Co-Supervisor
10	2010	Bahram Bahri	Graduated (2013)	Modeling and experimental analysis of exhaust gas temperature and misfire in an ethanol fuelled HCCI engine.	Co-Supervisor

Master Student

No	Registered Year	Name	Status	Title	Type	Roles of Supervision
1	2019	Baharin Bin Abdul Razak @ Abdul Ghani	On-going	External EGR Strategies For HCCI Ignition Two-Stroke Engine	Research	Co-Supervisor
2	2018	Muhammad Faizullizam bin Roslan	On-going	Investigation of Air & Fuel Intake Charge Startegy for the Improvement of HCCI Engine	Research	Main Supervisor
3	2018	Mohd Arif Hazim Bin Rosli	On-going	Internal EGR Strategies For HCCI Ignition Two-Stroke Engine	Research	Main Supervisor

4	2018	Mazlan bin Said	On-going	Spray Characteristic of Biodiesel Fuels	Research	Main Supervisor
5	2017	Mohammad Abdullah bin Mohamad Johar	On-going	Performance Optimization of a Standard Production SI Engine for Competition Application	Research	Main Supervisor
6	2016	Adnan bin Katijan	Graduated (2017)	Conversion of Motorcycle Fueling System from Carbureted to Gasoline Direct Injection	Taught Course	Main Supervisor
7	2016	Muhammad Hariz bin Khairuddin	On-going	Newly Effective Resonators of a Gasoline Engine for Low Intake Noise Emissions.	Research	Main Supervisor
8	2014	Lim Ching Sheng	Graduated (2016)	Characterisation of Solid Particles Based On Optical Techniques	Taught Course	Main Supervisor
9	2013	Mohd Aizad Sazrul bin Sabrudin	Graduated (2018)	Variable Valve Actuation Strategy to improve in-cylinder air flow behavior on cylinder deactivation engine using CFD Analysis	Research	Main Supervisor
1	2013	Noor Izzuan bin Mat Arishad	Graduated (2018)	Development of Cylinder Deactivation Control Strategy	Research	Co-Supervisor

				for Fuel Economy Performance		
11	2013	Mohd Rozi bin Mohd Perang	Graduated (2017)	Experimental Investigation on the Performance, Emissions and Combustion Characteristics of Diesel-Ethanol HCCI Combustion Mode Engine	Research	Co-Supervisor
12	2013	Izzarief bin Zahari	Graduated (2018)	Experimental and simulation study on airflow optimization on cylinder deactivation engine	Research	Main Supervisor
13	2013	Shaiful Fadzil bin Zainal Abidin	Graduated (2017)	Fuel Economy Improvement of a Naturally Spark Ignition Engine by Applying Cylinder Deactivation	Research	Main Supervisor
14	2013	Nur Adila binti Mohamad Shafie	Graduated (2016)	Simulation Work on Piston Bowl Geometry, Spray Angle and Spray Velocity of Converted Gasoline Direct Injection Engine	Research	Main Supervisor
15	2012	Afiq Aiman bin Dahlan	Graduated (2016)	Variable Capacity Control Strategy for an Automobile Air	Research	Co-Supervisor

				Conditioning System		

Undergraduate Student

No	Year	Name	Status	Title
1	2017	Muhamad Assyakirin bin Roslan	Completed	Particle Sizing Measurement using Image Analysis Techniques
2	2017	Muhammad Izzurin bin Zakaria	Completed	Flow Analysis of Piston Bowl Geometry on Gasoline Direct Injection Engine
3	2017	Mohamad Shahrafi bin A.Hadi	Completed	Performance Analysis of Internal Combustion Engine Based on Intake and Exhaust Variable Valve Timing
4	2017	Megat Muhammad Asyraf bin Buang	Completed	Optimization of Automotive Exhaust Muffler for Tail Pipe Noise Reduction
5	2017	Khairul Ikhmal bin Dani	Completed	Development of Remotely Operated Vehicle (ROV) Sediment Sampler and Water Sampling Devices for Scientific Research
6	2017	Muhammad Fitri bin Shamsul Bahri	Completed	Design and Development of Engine Intake Manifold for Formula SAE Car
7	2017	Eram Sabari Jeeva a/l Balakrishnan	Completed	Development of Remotely Operated Underwater Vehicle (ROV) for Monitoring Application
8	2017	Muhammad Afiq bin Shatri	Completed	Design and Development of Engine Exhaust Muffler for Formula SAE
9	2017	Muhammad Ikhsan bin Awang	Completed	Diesel Engine Performances Fuelled with Ethanol Blends
10	2016	Mugilan a/l Muralitharan	Completed	Development of Anti-Sleep Device for Car Driver Application

11	2016	Mahadhir bin Mohammad	Completed	Development of Remotely Operated Vehicle (ROV) Sediment Sampler and Water Sampling Devices for Scientific Research
12	2016	Mohamad Fitri bin Md Nor	Completed	Design and Development the Remotely Operated Vehicle (ROV) for Observe and Monitoring Application
13	2015	Mohd Zahin bin Mohd Shahrin	Completed	Swirl and Tumble Flow Analysis of Internal Combustion Engine
14	2015	Abdul Rahim bin Shar Anuar	Completed	Analysis of the In-cylinder Flow Characteristics of GDI Engine
15	2015	Mohd Imran Sufiyan bin Mohd Muhtar	Completed	Engine Performance Study of Biofuel Alcohol Blends
16	2015	Mohd Fadziel bin Mohamad Nor	Completed	Modelling of Cylinder Deactivation Engine
17	2015	Ahmad Akhimullah bin Faugi	Completed	Performance Analysis of Turbocharged Engine Modelling
18	2014	Mohamad Syazwan bin Mohd Sadali	Completed	Investigation of Cylinder Deactivation Technique on Spark Ignition Engine
19	2014	Mohamad Faisal bin Sumari	Completed	Intake Port Flow Study on Cylinder Head using Flowbench
20	2014	Mohd Izham bin Ahmad Salehudin	Completed	Engine Performance Analysis of GDI System
21	2014	Mohamad Hamidi bin Shufi	Completed	The Effect of Biodiesel – Alcohol Blends on Direct Injection of Diesel Engine
22	2014	Wong King Mun	Completed	Flow Measurement of Four Cylinders Intake Manifolds Engine
23	2014	Abd Rizal bin Mohd Amin	Completed	Flow Analysis of Four Cylinder Engine Exhaust System
24	2014	Mohamad Firdaus bin Mohamad Ruskor	Completed	Investigation the Effect of Exhaust Muffler on Engine Performance
25	2013	Mohamad Norfadrin Asnawi bin Jasmi	Completed	Effect of Intake Port Design on Swirl Behaviour of Internal Combustion Engine
26	2013	Mohamad Fahmie bin Mohd Nor	Completed	Performance Study of Intake System of Four Stroke SI Engine using GT-Power Software

27	2013	Mohamad Hazhariq bin Hamidy	Completed	Design of Variable Valve Timing on Internal Combustion Engine
28	2013	Muhammad Bakhtiar bin Abd Razak	Completed	Performance Study of Exhaust Manifold of Four Stroke SI Engine using GT-Power Software
29	2013	Nur Adila binti Mohamad Shafie	Completed	Analysis on The Flow Characteristics of Direct-Injection Diesel Engine Using CFD Modelling
30	2012	Muhammad Hairi bin Jasman	Completed	Development of Spray Droplet Sizing using Image Analysis Technique
31	2012	Mohd Amirul Ashraf bin Zulkipli	Completed	Performance Study of Four Stroke Engine using Simulation Tools

POSTGRADUATE EXAMINATION /VIVA

PhD EXTERNAL EXAMINER

1. K. Velmurugan.
   Effect of Antioxidant additives on NOx emissions from different methyl Ester Fuelled DI Diesel Engine, Annamalai University, Tamilnadu, India (2016)

2. S. Gowthaman.
   Experimental Investigation on Performance, Emission and Combustion Characteristics of HCCI Mode Engine Fuelled with Different Fuels, Annamalai University, Tamilnadu, India (2016)

Master (by research) EXTERNAL EXAMINER

1. Mastura binti Mutafa
   CFD Investigation of Steady-Sfafe Flow Field Inside a Planar Diffuser of the Close-Coupled Catalytic Converter, Universiti Teknikal Malaysia Melaka (UTeM) (2019)

2. Mohamad Syafiq bin Abdul Khadir.
   Modenas Motorcycle Engine Performance Enhancement by Various Cam Profiles using Parametric Analysis, Universiti Malaysia Perlis (UniMAP), Kangar, Perlis, Malaysia (2017)

Master (by research) INTERNAL EXAMINER

1. Kim Je Young
   A Pulse Turbocharging System for Small SI-Engine to Improve Low End Torque, Universiti Teknologi Malaysia (UTM), Skudai, Johor, Malaysia (2018)

2. Nuur 'Azzalia binti Ruzi
   Comparison of Engine Performances and Exhaust Emissions between Surfactant added Emulsion Fuel and Non-surfactant Emulsion Fuel, Malaysia-Japan International Institute of Technology (MJIIT), UTM Kuala Lumpur (2019).

3. Muhammad Aizat Abd Halim
   Numerical Prediction of Flow and Performance of a Motorcycle Air Intake System, Universiti Teknologi Malaysia (UTM), Skudai, Johor, Malaysia (2018)

4. Nurul Aiyshah binti Mazlan.
   Real-Time Non-Surfactant Emulsion Fuel Supply System for Light Duty Transport, Malaysia-Japan International Institute of Technology (MJIIT), UTM Kuala Lumpur (2017).

SPECIAL INDUSTRIAL VISIT

Mar 2019 – Mar 2019 : Participate in Supplier Bencmarking Activities at Geely's Top Suppliers in China.

Feb 2013 – Mar 2013 : Participate in PROTON Engine Development Activities at LOTUS Engineering, United Kingdom.

PUBLICATIONS

JOURNAL

ISI Journal :

1. Andwari, A.M., Pesyridis, A., Esfahanian, V., **Muhamad Said, M.F**., *Combustion and emission enhancement of a spark ignition two-stroke cycle engine utilizing internal and external exhaust gas recirculation approach at low-load operation*, Energies, **2019**, Volume 12, Issue 4, **(Q2, IF = 2.676)**
2. Mohebbi, M., Reyhanian, M., Hosseini, V., **Said, M.F.M.**, Aziz, A.A., *The effect of diethyl ether addition on performance and emission of a reactivity controlled compression ignition engine fueled with ethanol and diesel*, Energy Conversion and Management, **2018**, Volume 174, Pages 779-792, **(Q1, IF = 6.377)**
3. Khairuddin, M.H., **Said, M.F.M**., Dahlan, A.A., Kadir, K.A., *Review on resonator and muffler configuration acoustics*, Archives of Acoustics, **2018,** Volume 43, Issue 3, Pages 369-384, **(Q3, IF = 0.917)**
4. Mohebbi, M., Reyhanian, M., Hosseini, V., **Muhamad Said, M.F.**, Aziz, A.A., *Performance and emissions of a reactivity controlled light-duty diesel engine fueled with n-butanol-diesel and gasoline*, Applied Thermal Engineering, **2018**.134: p. 214-228, **(Q1, IF = 3.36)**
5. Mohammed, A., Abdul-Wahab, M.F., Hashim, M., Omar, A.H., Md Reba, M.N., **Muhamad Said, M.F**., Soeed, K., Alias, S.A., Smykla, J., Abba, M., Ibrahim, Z., *Biohydrogen Production by Antarctic Psychrotolerant Klebsiella sp ABZ11*, Polish Journal of Microbiology, **2018**, Volume 67, Issue 3, Pages 283-290, **(Q4, IF = 0.784)**
6. Ghanaati, A., **Muhamad Said, M.F**., Darus, I. Z. M., *Comparative analysis of different engine operating parameters for on-board fuel octane number classification*, Applied Thermal Engineering, **2017**.124: p. 327-336, **(Q1, IF = 3.634)**
7. Amin Mahmoudzadeh Andwari, Azhar Abdul Aziz, **Mohd Farid Muhamad Said**, Zulkarnain Abdul Latiff, *Experimental investigation of the influence of internal and external EGR on the combustion characteristics of a controlled auto-ignition two-stroke cycle engine*, Applied Energy, **2014**.134:p. 1-10, **(Q1, IF = 6.33)**
8. Andwari, A.M., A. Abdul Aziz, **M.F. Muhamad Said**, and Z. Abdul Latiff, *An experimental study on the influence of EGR rate and fuel octane number on the combustion characteristics of a CAI two-stroke cycle engine.* Applied Thermal Engineering, **2014**. 71(1): p. 248-258, **(Q1, IF = 3.034).**
9. Bahri, B., A.A. Aziz, M. Shahbakhti, and **M.F. Muhamad Said**, *Understanding and detecting misfire in an HCCI engine fuelled with ethanol*. Applied Energy, **2013**. 108: p. 24-33, **(Q1, IF = 5.597)**
10. Bahri, B., A.A. Aziz, M. Shahbakhti, and **M.F.M. Said**, *Analysis and modeling of exhaust gas temperature in an ethanol fuelled HCCI engine*. Journal of Mechanical Science and Technology, **2013**. 27(11): p. 3531-3539, **(Q3, IF = 0.743)**

SCOPUS Journal (Article) :

1. Dahlan, A.A., **Muhamad Said, M.F.**, Latiff, Z., Mohd Perang, M.R., Abu Bakar, S.A., Abdul Jalal, R.I., *Acoustic study of an air intake system of SI engine using 1-dimensional approach*, International Journal of Automotive and Mechanical Engineering, Volume 16, Issue 1, (2019), Pages 6281-6300

2. Fazil, A.D.M., Fawzi, M., Osman, S.A., Ismail, M.M., **Muhamad Said, M.F.**, *Potential consumer assessment on the usage of diesel-CNG dual fuel vehicle in Malaysia*, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Volume 53, Issue 2, (2019), Pages 175-184

3. Said, N.H., Ani, F.N., **Said, M.F.M.**, *Emission and performance characteristics of waste cooking oil biodiesel blends in a single direct injection diesel engine*, International Journal of Technology, Volume 9, Issue 2, (2018), Pages 238-245.

4. Ani, F.N., Said, N.H., **Said, M.F.M.**, *Optimization of biodiesel production using a stirred packed-bed reactor*, International Journal of Technology, Volume 9, Issue 2, (2018), Pages 219-228.

5. Andwari, A.M., Aziz, A.A., **Said, M.F.M.**, Esfahanian, V., Latiff, Z.A., Said, S.N.M., *Effect of internal and external EGR on cyclic variability and emissions of a spark ignition two-stroke cycle gasoline engine*, Journal of Mechanical Engineering and Sciences, Vol 11(4), (2017), p. 3004-3014.

6. Dahlan, A.A., Shahrafi, M., **Muhamad Said, M.F.**, *Simulation of intake and exhaust valve timing on internal combustion engine*, Jurnal Teknologi 79 (2017), no. 7-4, 47-52.

7. Mohammad, M., Buang, M.M.A., Dahlan, A.A., Khairuddin, M.H., **Muhamad Said, M.F**., *Simulation of automotive exhaust muffler for tail pipe noise reduction*, Jurnal Teknologi 79 (2017), no. 7-4, 37-45.

8. Shafie, N. A. M., **Said, M. F. M**., *Cold flow analysis on internal combustion engine with different piston bowl configurations*, Journal of Engineering Science and Technology, Vol 12(4), (2017), p. 1048-1066.

9. Khairuddin, M.H., Bahri, M.F.S., Dahlan, A.A., Mohammad, M., **Muhamad Said, M.F**., *Simulation analysis of spark ignition engine intake manifold for better performance*, Jurnal Teknologi 79 (2017), no. 7-4, 15-21.

10. Sabrudin, M. A. S., **Said, M. F. M**., Latiff, Z. A., *Effects of asymmetric intake valve lift configuration towards in-cylinder air flow behavior*, ARPN Journal of Engineering and Applied Sciences, Vol 12(7), (2017), p. 2380-2384.

11. Mohamad Shafie, N. A., **Muhamad Said, M. F**., Abdul Latiff, Z., Rajoo, S., *Discharge and flow coefficient analysis in internal combustion engine using computational fluid dynamics simulation*, ARPN Journal of Engineering and Applied Sciences, Vol 12(8), (2017), p. 2598-1603.

12. K. Sumeru, C. Sunardi, A. Abdul Aziz, H. Nasution, A. M. Abioye and **M. F. Muhamad Said**, *Comparative performance between R134a and R152a in an air conditioning system of a passenger car*, Jurnal Teknologi 78 (2016), no. 10-2, 1-6.

13. I. Hamid, **M. F. M. Said**, S. N. M. Soid and H. Nasution, *Effect of cylinder deactivation strategies on engine performances using one-dimensional simulation technique*, Jurnal Teknologi 78 (2016), no. 8-4, 49-55.

14. A. A. Aziz, K. Sumeru, **M. F. Muhammad Said**, M. R. Mohd Perang and H. Nasution, *Single-cylinder 125 cc stepped-piston engine for mobility and portable power generation applications*, International Journal of Technology 7 (2016), no. 2, 352-361.

15. A. R. S. Anuar, **M. F. M. Said**, N. A. M. Shafie, A. A. Aziz and H. Nasution, *Flow analysis of piston head geometry for direct injection spark ignition engine*, Jurnal Teknologi, 78 (2016), no. 8-4, 81-88.

16. Andwari, A.M, Aziz, A.A., **Said, M.F.M**., Latiff, Z.A., Ghanaati, A., *Influence of hot burned gas utilization on the exhaust emission characteristics of a controlled auto-ignition two-stroke cycle engine*, International Journal of Automotive and Mechanical Engineering, Volume 11, Issue 1, 2015, Pages 2396-2404.

17. S. F. Zainal Abidin, **M. F. Muhamad Said**, Z. Abdul Latiff, I. Zahari and M. Said, *The study of the effect of intake valve timing on engine using cylinder deactivation technique via simulation*, Jurnal Teknologi 77 (2015), no. 8, 107-111.

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22. **Muhamad Said, M.F** and Aroussi, A, *Utilization of pulverised coal monitoring system for cleaner electricity generation*, International Journal of Automotive and Mechanical Engineering, 2014. Vol 9, Issue 1, pg. 1588-1598.

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1. Kaulani, S.A., Latiff, Z.A., Perang, M.R.M., **Said, M.F.M**., Hasan, M.F., *Performance and emission of compression ignition (CI) engine using ethanol-diesel blending as a fuel*, AIP Conference Proceedings, Volume 2059, (2019), Article number 020019, 3rd International Conference on Automotive Innovation Green Energy Vehicle, AiGEV 2018, Sri Manja Hotel Kuantan, Malaysia
2. Lee, J.H., Latiff, Z.A., Perang, M.R.M., **Said, M.F.M.**, *Air flow distribution measurement of the vehicle cooling system test rig*, AIP Conference Proceedings, Volume 2059, (2019), Article number 020002, 3rd International Conference on Automotive Innovation Green Energy Vehicle, AiGEV 2018, Sri Manja Hotel Kuantan, Malaysia
3. Johar, M.A.M., **Said, M.F.M.**, Abas, M.A., Latiff, Z.A., Ali, M.F., Ibrahim, N.M.I.N., *Flow analysis of intake port geometry of spark ignition engine using simulation*, AIP Conference Proceedings, Volume 2059, (2019), Article number 020048, 3rd International Conference on Automotive Innovation Green Energy Vehicle, AiGEV 2018, Sri Manja Hotel Kuantan, Malaysia
4. Veza, I., **Said, M.F.M.**, Latiff, Z.A., Hasan, M.F, Jalal, R.I.A., Ibrahim, N.M.I.N., *Simulation of predictive kinetic combustion of single cylinder HCCI engine*, AIP Conference Proceedings, Volume 2059, (2019), Article number 020017, 3rd International Conference on Automotive Innovation Green Energy Vehicle, AiGEV 2018, Sri Manja Hotel Kuantan, Malaysia
5. Ghanaati, A., **Muhamad Said, M.F.**, Mat Darus, I.Z., *A Comparative Study on Knock Occurrence for Different Fuel Octane Number*, (2018), SAE International (2018-01-1674)
6. Shafie, N. A. M., **Said, M. F. M**., Aziz, A. A., Latiff, Z. A., Yamin, A. K. M., Tamaldin, N., *Steady flow and dynamic analyses comparison of an air intake breathing capacity*, MATEC Web of Conferences (2016), Volume 90.
7. Hashim, M., Misbari, S., Reba, N. M., Abdul Wahab, M. F., Pour, A. B., **Said, M. F. M.**, Omar, A. H., Soeed, K., *Mapping snow-algae in Antarctic Peninsula with multi-temporal satellite remote sensing data*, International Geoscience and Remote Sensing Symposium (IGARSS), Volume (2016), Article number 7730360, Pages 5221-5224.
8. M. Hashim, S. Misbari, N. M. Reba, M. F. Abdul-Wahab, A. B. Pour, **M. F. M. Said**, A. H. Omar and K. Soeed, *Mapping snow-algae with multi-temporal satellite remote sensing data for indicator of climate change effects in antarctic peninsula*, ACRS 2015

- 36th Asian Conference on Remote Sensing: Fostering Resilient Growth in Asia, Proceedings2015.

9. **Muhamad Said, M.F**., A.B. Abdul Aziz, Z. Abdul Latiff, A. Mahmoudzadeh Andwari, and S.N. Mohamed Soid, *Investigation of Cylinder Deactivation (CDA) Strategies on Part Load Conditions*, 2014. SAE International (2014-01-2549)
10. **Mohd Farid Muhamad Said**, Zulkarnain Abdul Latiff, Aminuddin Saat, Mazlan Said, Shaiful Fadzil Zainal Abidin, *Analysis of variable intake runner lengths and intake valve open timings on engine performances*, Applied Mechanics and Materials, 2014. 663:336-341.
11. Amin Mahmoudzadeh Andwari, Azhar Abdul Aziz, **Mohd Farid Muhamad Said**, Zulkarnain Abdul Latiff, *A converted two-stroke cycle engine for compression ignition combustion*, Applied Mechanics and Materials, 2014. 663:331-335.
12. Saat, A., M.A. Wahid, and **M.F. Muhamad Said**, *Early flame development in the combustion of droplet and vapour mixtures*, Applied Mechanics and Materials, 2013. 388: p. 223-228.
13. Bahri, B., A.A. Aziz, **M.F.M. Said**, and M. Shahbakhti, *Misfiring cycle pressure measurement for diesel-converted HCCI engine*, Proceedings of 2013 3rd International Conference on Instrumentation, Control and Automation, ICA 2013, 2013: p. 45-50.
14. Andwari, A.M., A.A. Aziz, **M.F. Muhamad Said**, and Z. Abdul Latiff, *Controlled auto-ignition combustion in a two-stroke cycle engine using hot burned gases*, Applied Mechanics and Materials, 2013. 388: p. 201-205.
15. **Said, M.F.M**., M. Said, and A.A. Aziz, *Modelling of diesel engine fuelled with biodiesel using engine simulation software*, AIP Conference Proceedings, 2012. 1440: p. 307-313.
16. Said, M., A.A. Aziz, and **M.F.M. Said**, *Effect of palm methyl ester-diesel blends performance and emission of a single-cylinder direct-injection diesel engine*, AIP Conference Proceedings, 2012. 1440: p. 562-570.
17. Kamal, K., **M. Farid**, and S. Mathavan, *Detection of knocking in Spark Ignition (SI) engines using CMAC neural networks*, 2012 International Conference on Robotics and Artificial Intelligence, ICRAI 2012, 2012: p. 144-147.
18. Aziz, A.A., **M.F. Said**, and M.A. Awang, *Performance and emission evaluations of palm oil-based biodiesels with conventional diesel using single cylinder direct injection engine*, 2005, SAE International (2005-32-0016)

NON INDEXED Journal :

1. M.F. Samuri, **M. F. Muhamad Said**, N. A. Mohamad Shafie, Z. Abdul Latiff, A. Abdul Aziz, Intake Port Flow Study on Cylinder Head using Flowbench. Journal of Transport System Engineering, 2:2 (2015), p. 29-35

2. Mohamad Syazwan Mohd Sadali, **Mohd Farid Muhamad Said**, Engine Performance Analysis of Cylinder Deactivation System. Jurnal Teknos-2k, Vol. 15, No. 1 (2015), p. 29-37
3. Mohd Zahin Mohd Shahrin, **Mohd Farid Muhamad Said**, Nur Adila Mohamad Shafie, Flow Analysis of Intake Port in Internal Combustion Engine. Jurnal Teknos-2k, Vol. 15, No. 2 (2015), p. 42-54
4. H. Nasution, A. Abdul Aziz, Z. Abdul Latiff, **M. F. Muhamad Said**, A. H. Zulkifli, A. A Dahlan, B. Supriyo, W. M. Leong, M. R. Mohd Perang, H. Mohd Jamil, M. N. Misseri, Intelligent and Energy Efficient Air Conditioning System for Automobiles. Persidangan Kebangsaan Kedua Program Pemindahan Ilmu (KTP02), (2014)
5. I.S. Roslan, **M. F. Muhamad Said**, S. A. Abu Bakar, Conceptual Design of Remotely Operated Underwater Vehicle. Journal of Transport System Engineering, 1:2 (2014), p. 1-5

H INDEX : 8

CONSULTANCY

No	Duration	Title	Client	Role
1	July 2017	Vehicle Roller Chassis Dynamometer Test for Performance and Emission	Chimes Ag Sdn Bhd	Member
2	May 2017 – Apr 2018	Development of Malaysia Driving Cycle (MDC) Program	Malaysia Automotive Institute (MAI)	Leader
3	May – Aug 2017	Motorcycle and Gasoline Engine Testing on the Roller Chassis Dynamometer and Docking Dynamometer Respectively	Universal Energy Efficiency Sdn Bhd	Leader
4	May 2017	Monitoring for Vehicle Testing on the Roller Chassis Dynamometer	ANJ Engineering	Member
5	Apr – May 2017	Single Cylinder Diesel Engine Test for Palm-Biodiesel Blend Fuels	Dr Umi Aisah Ali (Faculty Science, UTM)	Leader

6	March 2017	Training of Operation on the Dynomite Roller Chassis Dynamometer	Hakita Engineering Sdn Bhd	Leader
7	July 2016	Engine Modeling Simulation Course	Universiti Kuala Lumpur Malaysia France Institute, Bangi, Selangor	Leader
8	Jan – June 2016	Development of Pump Test Rig	Kewpump (M) Sdn. Bhd.	Member
9	Apr – July 2015	Simulation of Intake and Exhaust Acoustic	PROTON Sdn. Bhd	Leader
10	Aug 2015	Provide training on Superflow machine for automotive application	Azma Global Tech Sdn Bhd & Universiti Teknikal Malaysia Melaka (UTeM)	Leader
11	Apr 2015	To investigate the gasoline engine's performance and emissions of the engine using 3 types of fuel which are RON 95, 97 and 100.	Department of Mechanical and Materials Engineering, Universiti Kebangsaan Malaysia.	Member
12	Aug 2014	Evaluation on the engine performance characteristics for petrol engine installed with Super B Dynamic	Riverside Sdn. Bhd	Leader
13	June – Sept 2014	Diesel engine testing for Ballast Water Treatment system	Marine Lab, UTM Skudai	Member
14	May – July 2014	Design and fabrication of the components for Intra Venous Drip Monitoring project	Innovation and Commercialisation Centre, UTM	Leader
15	June 2012	Laboratory Evaluation of Electronic Efficiency Fuel Device	AMR Intellisys Sdn Bhd	Member
16	May 2012	Conduct the Automotive Electrical and Electronic Course	Ranteng Resources & Services	Leader
17	July – Dec 2011	Development of Smart Medical Cart dan Street Light Monitoring System	Innovation and Commercialisation Centre (ICC), UTM	Member

THESIS

1. Mohd Farid Muhamad Said, *Development of Particle Sizing based on Dynamic Image Analysis,* Ph.D Thesis, University of Leicester, England, UK (2011)
2. Mohd Farid Muhamad Said, *Performance and Emission Tests of Biodiesel Fuels using a Conventional Diesel Engine,* M.Eng Thesis, Universiti Teknologi Malaysia, Johor, Malaysia (2006)

EDITED BOOK

1. Green Technology, Energy Efficiency and Sustainability, Edited by Henry Nasution & **Mohd Farid Muhamad Said**, 2016, UPP Press, ISBN: 978-602-73928-5-4.

2. Energy Performance and Efficiency in Automotive Technology, Edited by Henry Nasution & **Mohd Farid Muhamad Said**, 2015, Penerbit UTM Press, ISBN: 978-983-52-1038-9.

BOOK CHAPTER

1. Shaari, M.F., Mohamed, S.N., Magalinggam, S., Hamid, M.N.A., Zahelem, M.N., **Said, M.F.M**., *Optimization of air-fuel ratio and compression ratio to increase the performance of hydrogen port fuel injection engines*, Springer Verlag, Advanced Structured Materials, Volume 85, 2018, Pages 425-437. (Scopus)
2. Abdul Aziz, Z. Abdul Latiff, **M. F. Muhamad Said**, A. Mahmoudzadeh Andwari, *Application and Effect of Controlled Auto-Ignition (CAI) Combustion in an Air-Cooled Two Stroke Spark-Ignition Engine*, from GREEN TECHNOLOGY, ENERGY EFFICIENCY AND SUSTAINABILITY, Edited by Henry Nasution & Mohd Farid Muhamad Said, UPP Press, 2016, Pages 85-112.
3. **Mohd Farid Muhamad Said**, Saiful Fadzil Zainal Abidin, *Low Fuel Consumption with Cylinder Deactivation System*, from GREEN TECHNOLOGY, ENERGY EFFICIENCY AND SUSTAINABILITY, Edited by Henry Nasution & Mohd Farid Muhamad Said, UPP Press, 2016, Pages 63-83.
4. Henry Nasution, Md. Nor Musa, **Mohd Farid Muhamad Said**, *Potential Saving of Roof-top Passenger Vehicle Air Conditioning System*, from ENERGY PERFORMANCE AND EFFICIENCY IN AUTOMOTIVE TECHNOLOGY, Edited by Henry Nasution & Mohd Farid Muhamad Said, Penerbit UTM Press, 2015, Pages 19-48.

EXPERT REPORT

1. **Mohd Farid Muhamad Said**, Azhar Abdul Aziz, *NFE Intake Acoustics Simulation Work for Perusahaan Otomobil Nasional Sdn. Bhd.*, Final Report submitted to PROTON, February 2016.
2. Abdul Aziz, Z. Abdul Latiff, H. Nasution, **M. F. Muhamad Said**, M. R. Mohd Perang, H. Mohd Jamil, M. N. Misseri, Development of an Automated Pump Test Rig (rated 2 inch size pipe) for Kewpump (M) Sdn Bhd, Final Report sumitted to KEWPUMP, June 2016.

INVITED/GUEST SPEAKER

1. Invited speaker for the Powertrain Research Workshop, PROTON Shah Alam, 26 Oct 2017.
2. Speaker for the FKM COLLOQUIUM – *UTMShine Sharing Session*. (Title: Consultancy Work), organized by Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, 3 Oct 2017.
3. Invited Speaker for Knowledge Sharing Session, (Title 1: Intake and Exhaust Acoustic of Internal Combustion Engine. Title 2: Development of Remotely Operated Underwater Vehicle (ROV) for Antarctica Expedition), Kookmin University, Seoul, South Korea, 19 August 2016.
4. Invited Speaker for Engine Modelling Courses at Universiti Kuala Lumpur (UniKL), Malaysian France Institute (MFI), Bangi Selangor, 25 – 28 July 2016.
5. Invited Speaker for Training on Superflow Machine for Automotive Application at Universiti Teknikal Malaysia Melaka (UTeM), Ayer Keroh, 3 - 4 August 2015.
6. Speaker for the Knowledge Sharing Session (Title: Engineering Short Courses Program: 'Internal Combustion Engine'), held in PROTON Shah Alam Selangor, Malaysia, organized by PROTON Professor Office, February to July 2015 (once a month).
7. Speaker for the FKM COLLOQUIUM. (Title: Development of Engine and Vehicle Models for Performance Analysis), organized by Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, 20 May 2014
8. Speaker for the Quarterly Engineering Technical Session (QETS) (Title: Engine Modelling and Analysis) held in PROTON Shah Alam Selangor, Malaysia, organized by PROTON Professor Office, 5th December 2012.

9. Speaker for the Automotive Engine Optimization Workshop (focusing on GT-POWER modeling) held in Universiti Malaya KL, organized by VTC Solution Sdn Bhd., 16th December 2011.

10. Speaker for the Automotive Engine Performance Analysis Workshop (focusing on GT-POWER modeling) held in SIRIM Selangor, organized by VTC Solution Sdn Bhd., 6th October 2011.

PAPER REVIEWER – INTERNATIONAL PUBLICATION

1) Energy
2) Journal of Sustainability Science and Management (JSSM)
3) International Journal of Low Carbon Technologies
4) Journal of Biobased Materials and Bioenergy
5) Jurnal Teknologi
6) Journal of Engineering Science & Technology
7) Optics and Lasers in Engineering
8) Society of Automotive Engineering (SAE)
9) Engineering Science and Technology, an International Journal
10) International Journal of Automotive and Mechanical Engineering (IJAME)