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Date of birth : 02/05/1989 (29 years old)



Experience and skill highlights

1. Able to communicate and interact well with all management level effectively.
2. Written and oral fluency in English and Bahasa Malaysia.
3. Acquire German language certificate level A1
4. Strong academic and teaching background.
5. Depth working knowledge in green energy fuel and internal combustion engine.

Education

2015 – 2018	Universiti Malaysia Pahang Doctor of Philosophy in Mechanical Engineering
2012 - 2014	Universiti Tun Hussein Onn Malaysia Master in Mechanical Engineering (Research)
2008 - 2012	Universiti Tun Hussein Onn Malaysia Professional Degree in Engineering (Mechanical)

Employment history

Company	Universiti Malaysia Pahang
Position	Research assistant
Date	March 2015 – March 2018
Company	Hochschule karlsruhe technik und wirtschaft
Position	Research assistant
Date	March – July 2017
Company	Texas Instrument Sdn. Bhd
Position	Engineering trainee
Date	July – September 2011
Company	Syarikat Pengeluar Air Sungai Selangor
Position	Engineering trainee
Date	July – September 2012
Company	Universiti Tun Hussein Onn
Position	Engineering lab instructor (Mechanic of Machine)
Date	November 2013 – April 2014
Company	Universiti Tun Hussein Onn
Position	Research assistant
Date	November 2013 – April 2014

Working projects involvement

1. Design and develop motorized induction system using roller for visual mechanic inspection to minimize plotted area. (Texas Instrument)
2. Autocad drawing check for semiconductor chip.
3. Create a framework standard operating procedure for 12 – cylinders, four-stroke diesel engine GENSET. (Syarikat Pengeluar Air Sungai Selangor)
4. Investigation of spray formation using diesel-biodiesel blended fuel. (Universiti Tun Hussein Onn Malaysia)

5. Engine combustion, performance and exhaust emissions testing for four-cylinder, four-stroke medium duty CNG engine. (Universiti Tun Hussein Onn)
6. Engine combustion, performance and exhaust emissions testing for four-cylinder, four-stroke gasoline engine fuelled with secondary butyl alcohol–gasoline blends. (Universiti Malaysia Pahang)
7. Engine combustion, performance and exhaust emissions testing for four-cylinder, four-stroke gasoline engine fuelled with Fusel oil–gasoline blends. (Universiti Malaysia Pahang)
8. Engine combustion, performance and exhaust emissions testing for four-cylinder, four-stroke direct injection diesel engine fuelled with n-butanol–diesel blends. (Universiti Malaysia Pahang)
9. Development of spark plug measurement test rig. (Hochschule karlsruhe technik und wirtschaft)
10. Investigation of effects of water injection towards gasoline engine. (Hochschule karlsruhe technik und wirtschaft)

Research projects involvement

1. Improved oxygenated combustion through alcohol additive dilution approach on a diesel engine for performance and emissions enhancement RDU1603126. (Pure science)
2. Influence of using emulsified palm biodiesel fuel on the performance and pollutants emitted from diesel engine RDU160309. (Pure science)
3. Performance of nano particle bases diesel blends on combustion characteristics, performance and exhaust emissions RDU1603107. (Pure science)
4. Enhancing performance and emissions on a turbocharged gasoline engine RDU160373. (Engineering technology)
5. Investigation on performance and emission of biodiesel/methanol/water blends RDU1603100. (Pure science).

List of publications

1. Experimental investigation of combustion, emissions and thermal balance of secondary butyl alcohol-gasoline blends in a spark ignition engine **I.M. Yusri**, R. Mamat, W.H. Azmi, G. Najafi, N.A.C Sidik, OI Awad Energy Conversion and Management 123, 1-14. **Q1 Journal: Impact factor 4.8.**
2. Application of response surface methodology in optimization of performance and exhaust emissions of secondary butyl alcohol-gasoline blends in SI engine **I.M. Yusri**, R. Mamat, W.H. Azmi, A. I. Omar, M. A. Obed and A.I.M Shaiful Energy Conversion and Management. **Q1 Journal: Impact factor 4.8.**
3. Alcohol based automotive fuels from first four alcohol family in compression and spark ignition engine: A review on engine performance and exhaust emissions. I.M. Yusri, R.Mamat, G. Najafi, A. Razman, Omar. I. Awad, W.H. Azmi, W.F.W. Ishak, Ishak M. S. A. Renewable and Sustainable Energy Review. **Q1 Elsevier Journal Impact Factor 6.8.**
4. A review on the application of response surface method and artificial neural network in engine performance and exhaust emissions characteristics in alternative fuel. I.M. Yusri, APPA Majeed, R.Mamat, M.F. Ghazali, O.I. Awad, and W.H. Azmi. Renewable and Sustainable Energy Review. **Q1 Elsevier Journal Impact Factors 6.8.**
5. The effect of adding fusel oil to diesel on the performance and the emissions characteristics in a single cylinder CI engine OI Awad, R Mamat, OM Ali, **IM Yusri**, AA Abdullah, AF Yusop, MM Noor Journal of the Energy Institute. **Elsevier Journal: Impact factor 1.0.**
6. The impacts of compression ratio on the performance and emissions of ice powered by oxygenated fuels: A review OI Awad, R Mamat, MM Noor, TK Ibrahim, **IM Yusri**, AF Yusop Journal of the Energy Institute. **Elsevier Journal: Impact factor 1.0.**
7. Investigation of influences of secondary butyl-alcohol blends on performance and cycle-to-cycle variations in a spark ignition engines I. M. Yusri, Rizalman Mamat, A. F. Yusop, W.H. Azmi, Omar I. Awad Energy Procedia. **Scopus**
8. The Combustion of n-butanol-diesel fuel blends and its cycle to cycle variability in a modern common rail diesel engine **I. M. Yusri**, R. Mamat, O. M. Ali, A. Aziz , M. Akasyah, M. K. Kamarulzaman, C. K. Ihsan, H. M. Mahmadi. ARPN Journal of Engineering and Applied Sciences. **Scopus**
9. Combustion and emissions characteristics of a compression ignition engine fuelled with n-butanol blends **I.M. Yusri**, MK Akasyah, R Mamat, OM Ali Jurnal Teknologi (Sciences & Engineering). **Scopus**
10. Mono-Gas Fuelled Engine Performance and Emissions Simulation Using GT-Power **MY Ismail**, AJ Alimin, SA Osman Applied Mechanics and Materials. **Scopus**

11. Predicting the performance and emissions characteristics of a medium duty engine retrofitted with compressed natural gas system using 1-dimensional software AJ Alimin, **MY Ismail**, SA Osman Applied Mechanics and Materials. **Scopus**
12. Performance and emission characteristics of direct injection CI engine retrofitted with mono-CNG system SA Osman, AJ Alimin, **MY Ismail** and WH Koh. Applied Mechanics and Materials. **Scopus**
13. Experimental investigations of butanol gasoline blends effects on the mass fraction burned in SI Engine **I. M. Yusri**, Shahrul Azmir Osman, R. Mamat, Omar .I Awad and S. M. Rosdi International Journal of Engineering and Technology. **Scopus** (Under review)
14. Influences of gasoline fuels on waste heat recovery potentiality of a spark ignition engine **I.M. Yusri**, Rizalman Mamat , W.H. Azmi , Omar .I Awad and M.F. Othman Indian Journal of Science and Technology. **Scopus**.
15. Investigation of emissions characteristics of secondary butyl alcohol-gasoline blends in a port fuel spark ignition engines The 2nd International Conference on Automotive Innovation & Green Energy Vehicle **I. M. Yusri**, Rizalman Mama, A. Aziz, A. F. Yusop, Omar I. Awad and S. M. Rosdi. **Scopus**

Conference presentation

1. 4th international conference on mechanical and manufacturing engineering (ICME 2013).
2. 3rd international conference & exhibition on sustainable energy & advanced materials (ICE-SEAM 2013).
3. 2nd international conference on automotive innovation and green energy vehicle (AIGEV 2016)
4. The International Conference on Energy and Power (ICEP 2016).
5. The International Conference on Fluids and Chemical Engineering (FluidsChE) 2017

Professional and community affiliations

1. Board of engineer Malaysia. (Registration NO. 96362A)

Professional certificates

1. Professional assessment examination (PAE) workshop 2015

Professional appointment

1. Integrated design project exhibition & competition (IDPEC) 2015. (Judge)
2. Elsevier journal reviewer for Energy Conversion and Management impact factor 4.8. (Reviewer)
3. Society of automotive engineer (SAE) journal reviewer.
4. Springer journal reviewer for Environmental Science and Pollution Research.
5. Taylor & Francis journal reviewer for Energy Sources, Part A: Recovery, Utilization, and Environmental Effects

Professional courses

1. Matlab short courses for beginner/intermediate level.
2. Research methodology courses.
3. VIVA-VOCE presentation skills.
4. Technical writing course.
5. Introduction of instrumentation with Arduino.
6. German language level A1.

Extracurricular activity

1. UTHM Research and innovation festival (Bronze medal).
2. UTHM Postgraduate soccer tournament (Semi-final).
3. Participant in 'Perodua Eco-Challenge 2010 at Malaysia International Motorsport Malacca (26 June 2010).
4. Third place Universiti Malaysia Pahang staff soccer tournament.

References

1. **Professor Dr Rizalman Bin Mamat** (Dean) Faculty of Mechanical Engineering, Universiti Malaysia Pahang, 26600 Pekan, Malaysia, +609-4245020.
2. **Associate Professor Ahmad Jais Bin Alimin** (lecturer) Faculty of Mechanical and Manufacturing Engineering, Universiti Tun Hussein Onn Malaysia, +6016-7958256.
3. **Dr Shahrul Bin Azmir** (lecturer) Faculty of Mechanical and Manufacturing Engineering, Universiti Tun Hussein Onn Malaysia, +6019-2143344.