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<https://scholar.google.com.my/citations?user=IKMHYMoAAAAJ&hl=en>

PERSONAL STATEMENT

I am a faculty member with more than 30 years of academic experience. I have demonstrated my skills through the completion of research projects, consultancy services and research publications in the area of conventional and nonconventional machining with simulation and manufacturing processes. Received numerous grants at local and international level.

PERSONAL DETAILS

Nationality: Malaysia

D.O.B: 2nd August 1967

ACADEMIC QUALIFICATIONS

Ph.D., Mechanical Engineering, University of Birmingham, United Kingdom, 2011

Master's in Engineering, University of Birmingham, United Kingdom, 2001

Bachelor, Universiti Teknologi Malaysia, MALAYSIA, 1990

CAREER EXPERIENCE

Senior Lecturer, Universiti Teknologi MARA, 2003 - Present

Courses: CAD/CAM, Manufacturing Processes, Occupational Safety and Health Administration Supervision of postgraduate students

RELEVANT SKILLS

SIMUFACT Forming & Additive Simulation CAD/CAM/CAE

(CATIA, Solidworks, Mastercam, Autocad)

Finite Element Method -modeling of cutting/machining process (Abaqus, Ansys).

RESEARCH EXPERIENCE

Visiting Researcher, Professorship of Virtual Production Engineering, Technical University of Chemnitz, Germany, 2015 - Present

Research works on virtual manufacturing of metal forming and metal additive manufacturing, performing simulation using SIMUFACT and material modelling.

RESEARCH GRANTS

Grant: MOHE Consortium for Research Excelent (KKP), 2021-2023

Role: Researcher

Title: Large Volume Additive Manufacturing Amount:

RM 499,600.00

Grant: German Academic Exchange Services (DAAD), 2019-2021

Role: Researcher/ Visiting Researcher

Title: Virtual Manufacturing in Metal Additive Manufacturing Amount:

EUR 84,000.00

Grant: ASEA-UNINET (BMBWF Austria), 2018

Role: Visiting Researcher Title:

Fatigue Lifecycle HFMPPT

Amount: EUR 4,300.00

Grant: German Academic Exchange Services (DAAD), 2017-2018

Role: Researcher/ Visiting Researcher

Title: Virtual Manufacturing in Metal Forming Processes

Amount: EUR 170,000.00

Grant: German Academic Exchange Services (DAAD), 2015 - 2016

Role: Researcher/ Visiting Researcher

Title: Virtual Manufacturing in Metal Forming Processes

Amount: EUR 80,000.00

Grant: International 100-TNCPI/INT 16/6/2 (006/2020), 2020 -2021

Role: Researcher

Title: Future Technology Additive Manufacturing

Amount: RM 197,789.78

Grant: Internal 600-IRMI 5/3/GIP (023/2018), 2018 -2019

Role: Project Leader

Title: Design And Analysis On Disposable Mouth Mirror

Amount: RM 20,000.00

Grant: Internal 600-IRMI/PERDANA 5/3 BESTARI (038/2018), 2018 -2019

Role: Project Leader

Title: Influence Of Electro Discharge Machining Of Biodegradable Titanium Alloy On The Biocompatibility

Amount: RM 35,000.00

Grant: Internal 600-IRMI/PERDANA 5/3 BESTARI (043/2018), 2018-2020

Role: Researcher

Title: Recycle Of Particle Debris From Grinding Procession Metal Injection Molding (Mim) Using Palm Stearin Binder

Amount: RM 35,000.00

Grant: National 600-RMI/FRGS 5/3 (0101/2016), 2016 -2019

Role: Researcher

Title: Strength And Fatigue Analysis Of High Strength Low Alloy Steel Using Post-Weld Impact Treatment

Amount: 121,200.00

~ selected research grants for the last five years

CONSULTATIONS

Technical Consultant for MERC Resources Sdn. Bhd. 2017 – Present

Consultation works for the design and development of paper making factory using new pulp processing technology.

PUBLICATIONS

Peer Review Journal Articles

Dicing Characterization on Optical Silicon Wafer Waveguide, **JB Saedon**, SMM Ibrahim, ARA Ghani, MHBA Razak, Applied Mechanics and Materials 899, 163-168, 2020

An Investigation on the Surface Integrity of Grade 5 Titanium Alloy Proceeding the Wire Electro-Discharge Machining (WEDM) Process, N Musa, **JB Saedon**, MS Adenan, Applied Mechanics and Materials, 899, 144-155, 2020

Thermal Barrier Coating (T.B.C.) of 8 Ytria Stabilized Zirconia and Mullite on Medium Carbon Steel
M.S.F. Zaini, A.M.I. Mamat, **JB Saedon**, MS Adenan, Journal of Mechanical Engineering, Vol SI 9(1), 13-23, 2020

Investigation on Parameter Contribution to the Property of Weld Joint AA5052-H112 Sheets in Friction Stir Spot Welding under Fatigue Load and Failure Mode, **J Saedon**, HC Ho, MS Adenan - Applied Mechanics and Materials, 899, 117-125, 2020

Surface topography and biocompatibility of Ti-6Al-4V after Wire Electro-Discharge Machining (WEDM), N Musa, **JB Saedon**, MS Adenan, Journal of Mechanical Engineering Vol SI 8(1), 130-139, 2019

Indexed Conference Papers (SCOPUS)

CAE Analysis for Disposable Mouth Mirror Based on Autodesk Moldflow Plastic Insight, **JB Saedon**, MZ Azlan, MS Adenan, M Azuddin, I.O.P. Conference Series: Materials Science and Engineering 834 (1), 012060

Cutting tools simulation with different parameter, I Siregar, **JB Saedon**, MS Adenan, I.O.P. Conference Series: Materials Science and Engineering 505 (1), 012042

Tool wear investigation in drilling titanium alloy, I Siregar, **JB Saedon**, MS Adenan, NM Nor, M.F.M. Azmi, M.H.B. Jamaludin, I.O.P. Conference Series: Materials Science and Engineering 505 (1), 012043

Multifiring endoclip conceptual design using cad approach, I Siregar, MS Adenan, AC Ariffin, **JB Saedon**, H Asro
I.O.P. Conference Series: Materials Science and Engineering 505 (1), 012053

Contact Phenomena in Micromachining: Modelling and Simulation, I Siregar, **JB Saedon**, MS Adenan, NM Nor, NMIM Pazai, I.O.P. Conference Series: Materials Science and Engineering 505 (1), 012093

~ selected publications for the year 2019-2020

POST/UNDER GRADUATESUPERVISION

PhD Student Ongoing

- 1. Mohammad Firdaus Bin Mohammed Azmi**
(2018802094)
Development of AISI 316LVM Austenitic Stainless Steel Hybrid S Phase Layer for Medical Implant Application
- 2. Siti Musalmah Md Ibrahim**
(2013570943)
Dicing Silicon Wafer
- 3. Ikhsan Siregar**
(2017437738)
Machining Optimization of Ti-6Al-4V Using WEDM for Biomedical Implant
- 4. Mohd Sani Buang**
(2012879428)
Process Optimization Parameters on Springback Prediction for Sheet Metal Stamping Process Using Finite Element Analysis and Experimentation
- 5. Siti Shahrizat Mohammad Sahlan**
(2012583369)
Optimization of Tensile Strength Properties in Hybrid Nano Composites Material Through Design of Experiment
- 6. Mohd Hazri Bin Mohd Rusli**
(2011618514)
Integration of Lean-Green Manufacturing With Suplier Kaizen Projects for Production Process Optimization

Master Student Ongoing

1. Siti Sarirah Binti Mohamad Noh
(2020968023)
Optimization Of Medical Device Parameters Using Taguchi Method And Teaching-Learning-Based-Optimization
2. Cik Faedzah Nur Binti Hamdan
(2011866416)
Manual Material Handling in Automotive manufacturing Industries
3. Cik Nur Ain Abd Rahman
(2013248576)
Microcutting edge radius characterization
4. Nur'Amirah Busu
(2014807786)
Optimization Strategy for Heat Generation in Friction STIR Welding

Master Student Completed

1. Mohammad Shamil Jaffarullah
(2014279236)
Heat Distribution in Friction Stir Welding
2. Puan Noor Aniza Norrdin
(2013823106)
Three Dimensional Cutting Force and Tool Deflection in Micro End Milling
3. Mahadi Bin Mahmud
(2013192873)
Experimental Study Between 3-Matic and Reverse Engineering
4. Mohd Shahrudin bin Mohd Alias

(2012415124)

Analysis on The Factors and Effects of Engine Tapping Noise by Design of Experiment (DOE)

5. Norkamal Jaafar

(2013264938)

WEDM Multi-objective Optimization

6. Nornisaadila Musa

(2017864522)

Influence of Electro Discharge Machining of Biodegradable Titanium Alloy on The Biocompatibility

7. Mujahidah Zaira Azlan

(2017286914)

CAD/CAM/CAE Application in Automotive Product

PhD Student Completed

1. Dahia Bin Andud

(2013221457) , 2019

Simulation and Experimental Investigation for Fatigue Life Enhancement of Structural Offshore Steel S460GM+2 Using Semi-Automatic GMAW and HFMI/PIT

2. Armanshah

(2014897684)

Friction Stir Spot Welded Characterization of Aluminium Alloy 5052-H112 and Prediction Model using Artificial Neural Network

3. Dendi Prajadhiana Ishak

(2013226542)

Approach on Hot Stamping Using Thermo-mechanical Couple Finite Element (FE) Simulation Due To Preheating, Pressing and Indirect Quenching

Special Invitations/ Appointments/ Expertise Contributions

Postgraduate Thesis Examiner (National/International)

1. Internal Panel Examiner –PhD of Engineering – Thesis
Nor Fazli Adull Manan - 2011258326
2. Internal Panel Examiner – Master of Engineering – Thesis
 - a. Shahrul Hisham Marwan, 2011242614, 2014
 - b. Siti Noor Azizzati Mohd Noor 2012625822, 2014
 - c. Azriq Zainul Abidin 2011965099, 2015
 - d. Nik Mohd Baihaki Bin Abd Rahman, 2012454158, 2015
 - e. Siti Noor Azizati Binti Mohd Noor, 2012625822, 2015
 - f. Siti Umrah binti Zainal. 2016870836, 2021
3. Internal Panel Examiner - Master of Engineering – Research proposal
4. External Panel Examiner (UTeM)- Master of Engineering – Thesis
 1. Helmi Affandi Mohamad Azmi, 2018
 2. Muhammad Zaki bin Kasman, 2020
- 5 Internal Panel Examiner - PhD of Engineering

- Nur Hidayatul Nadhirah Binti Elmi Azham Shah, 2014649744, 2019

Paper Reviewer (National/International)

1. Panel reviewer JmecE
2. Panel reviewer APSIM2011/UKM
3. Panel reviewer International Conference on Advances in Mechanical Engineering (ICAME2013)
4. Panel reviewer International Conference on Advances in Mechanical Engineering (ICAME2015)
5. Panel reviewer International Conference on Advances in Mechanical Engineering (ICAME2017)
6. Panel reviewer International Conference on Advances in Mechanical Engineering (ICAME2019)
7. Panel reviewer International Journal of Industrial System and Engineering (IJISE)
8. Panel reviewer International Journal of Precision Engineering and Manufacturing (JPEM)
9. Panel reviewer Engineering Science and Technology, an International Journal (JESTCH)
10. Panel reviewer International Journal of Process Management and Benchmarking (JPMB)
11. Panel reviewer Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science
12. Panel reviewer Transactions of the Canadian Society for Mechanical Engineering
13. Panel reviewer Journal of the Brazilian Society of Mechanical Sciences and Engineering
14. Panel reviewer Iranian Journal of Science and Technology, Transactions of Mechanical Engineering
15. Panel reviewer Journal of Process Mechanical Engineering