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ACADEMIC QUALIFICATION

- Doctor of Philosophy in Mechanical Engineering, Kanazawa University, Ishikawa, Japan (2015)
- Master of Engineering (Mechanical-Advanced Manufacturing Technology) , Universiti Teknologi Malaysia, (2007)
- Bachelor of Mechanical Engineering with Honours (Manufacturing), Universiti Teknologi Malaysia, (1997)

PROFESSIONAL MEMBERSHIPS

No.	Membership	Institution
1.	Member	Board of Engineers Malaysia (BEM)
2.	Member (No: 107271)	International Association of Engineers (IAENG)
3.	Member (No: 80333260)	International Association of Computer Science And Information Technology (IACSIT)

WORKING EXPERIENCE

No.	Year	Institution	Position
1.	1997-1998	Fuji Rubber Selangor (Polymatech (M) Sdn. Bhd., Shah Alam Selangor	Technical Engineer
2.	1998 - 2007	Advanced Machinery and Engineering Technology, SIRIM Berhad	Research & Development Engineer
3.	2007 - Present	Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM) Shah Alam	Lecturer

RESEARCH AND PUBLICATIONS

Research Grant

No.	Research Project	Source	Total Funds	Begin	End
1.	Prototype Development Of Wireless Transmission System For Surface Electromyography (sEMG) (Leader)	SiNERGI	RM35,000	May 2019	April 2020
2.	Tool Performance Verification In Friction Stir Welds By finite Element Modelling (Leader)	Bestari Perdana	RM30,000	Jan 2018	July 2020
3.	Prediction Of Femoral Bone Fractures In Hip Arthroplasties (Member)	Lestari	RM20,000	July 2017	June 2019
4.	Development Of A Motorcycle Riding Guideline Using A Full Scale Human-Machine-Environment Interfaced (HMEI) Motorcycle Simulator (Member)	Lestari	RM20,000	July 2016	June 2018
5.	Experimental And Reconciliation Of Finite Element Model Of Riveted Joints Structure Via Finite Element Model Updating Method (Leader)	Lestari,	RM20,000	Dec 2015	Nov 2017
6.	Advancing Surface Electromyography (sEMG) Technology (Member)	PPRN	RM50,000	April 2006	Dec 2016
7.	Design Optimization Of A Superbike Paddock Stand Through Integrated CAD and CAE System Application (Member)	Dana	RM6,000	June 2011	May 2012
8.	Basic Study Of Interference Screw Fixation Stability In Anterior Cruciate Ligament Reconstruction (Member)	FRGS	RM50,740	Sept 2010	Oct 2012
9.	Muscle Fatigue Solutions For Prolonged Standing At Workplace Using Electromyography (EMG) And Customer Reliability Methodology (Member)	Science Fund	RM145,800	Jan 2009	Aug 2011

Publications (2015 – Current)

1. MASA Shah, MA Yunus, MNA Rani, **AM Saman**, MSM Sani, MSM Zin, 2019, The effect of laser stitch welding residual stress on the dynamic behaviour of thin steel structure, Journal of Mechanical Engineering and Sciences 13 (4), 5780-5790
2. MASA Shah, MA Yunus, **AM Saman**, MNA Rani, AR Bahari, C Peter, 2019, Finite Element Model Updating of Laser Stitch Welded Structure, IOP Conference Series: Materials Science and Engineering 506 (1), 012010
3. MASA Shah, MA Yunus, MNA Rani, MA Ayub, MSM Sani, **AM Saman**, Structural modification and evaluation using finite element reconciliation method, 2019, AIP Conference Proceedings 2059 (1), 020007
4. **AM Saman** T.Furumoto, Evaluation of separating process for different materials by thermal stress cleaving technique, 2018, International Journal of Engineering and Technology(UAE) 7 (4), 158-161
5. K Kasim, **AM Saman**, YH Manurung, N. Muhammad, AZ Abidin, AFA Shaari, 2018, Investigation of Chained Process Quality for Product Design Using FEM and Experimental Verification, International Journal of Engineering & Technology, 7 (4.36) (2018) 1583-1587
6. **AM Saman**, T Furumoto, A Hosokawa and T Ueda, 2017, Thermal Stress Analysis on Cleaving Sapphire Material by CO2 Laser, Journal of Engineering and Applied Sciences 12 (12), 3077-3082

7. WMSW Fauzi, AR Omar, H Rashid, **AM Saman**, R Haron, 2017, Pillion Simulation System (PISIS): An Exclusive System for Simulating Pillion's Motorcycling Experience, Journal Of Mechanical Engineering,4,2,91-109
8. MSA Sulaiman, MA Yunus, MN Abdul Rani, **AM Saman**, Z Mohamed, MAS Aziz Shah, 2017, Characterisation of the dynamic characteristics of a complex jointed structure, MATEC Web of Conferences 108, 12001
9. **AM Saman**, T Furumoto, T Ueda, A Hosokawa, 2015, A study on separating of a silicon wafer with moving laser beam by using thermal stress cleaving technique, Journal of Materials Processing Technology 223, 252-261
10. **AM Saman**, T Furumoto, A Hosokawa, T Ueda, 2015, Thermal stress cleaving of Si-wafer: investigation of fracture initiation during laser beam irradiation, Advanced Materials Research 1101, 412-418

REFERENCES

Prof. Ir. Dr. Hj. Muhammad Azmi Ayub

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