



**Associate Professor**

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Professional Technologist, PhD. & M.Sc. Mechanical Eng. B.Sc. Aerospace Eng.

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Specialized in Aerospace (Structures), Structural Strength Testing, and Embedded Sensor Testing

Active Research Interest in Flight Technology, Automotive (Structure, Transmission & Hybrid System Technology), Alternative Energy (Wind, Water, Solar) and Sustainable Resource Engineering Technology

## Personal Particulars

Birthdate: 03 November 1974  
Birthplace: Kota Setar, Kedah, Malaysia  
Status: Married  
Race: Malay  
Religion: Islam  
Citizenship: Malaysian

## Work Experience

Nov 2019 – Present Associate Professor (DM54), Faculty of Mechanical Engineering, Universiti Teknologi MARA Malaysia, Shah Alam.  
Involved in teaching Mechanical Engineering Fundamentals i.e. Statics & Strength of Materials, Finite Element Methods and Mechanical Engineering Design I & II

Mac 2009 – Nov 2019 Senior Lecturer (DM52), Faculty of Mechanical Engineering, Universiti Teknologi MARA Malaysia, Shah Alam.  
Involved in teaching Mechanical Engineering Fundamentals i.e. Statics & Strength of Materials, Finite Element Methods and Mechanical Engineering Design I & II

Mac 2006 – Feb 2009 Lecturer (DM45), Faculty of Mechanical Engineering, Universiti Teknologi MARA Malaysia, Shah Alam.  
Involved in teaching Mechanical Engineering Fundamentals of Statics, Strength of Materials and Aircraft Structures.

Jun 2002 – Feb 2006	Young Lecturer (DM41), Faculty of Mechanical Engineering, Universiti Teknologi MARA Malaysia, Shah Alam. Involved in teaching in Diploma Level: Diploma in Mechanical Engineering, Diploma in Automotive Engineering and Diploma in Aerospace Engineering.
Dis 1998 – Jun 2002	Pegawai Latihan Vokasional, J3; Majlis Amanah Rakyat, MARA, Jalan Raja Laut, Kuala Lumpur. Involved with the establishment and recruitment of Technical Training Officers of Malaysian Institute of Aviation Technology (MIAT), Sepang, Selangor and Malaysian Spanish Institute (MSI), Kulim, Kedah, now known as UniKL.

## Academic Appointments

March 2020 – Feb 2021	Head of Unit 3: Aerospace and Additive Manufacturing, Smart Manufacturing Research Institute, SMRI, Universiti Teknologi MARA, Shah Alam.
23.09.2019 – 18.11.2021	Associate Member Research Interest Group (RIG), Entity of Excellence Tier 5 UiTM – Flight Technology and Test Research Group.
2.01.2019 – 31.12. 2019	Deputy Head of Project “Formula SAE UiTM Motorsports”.
Jun 2018 – Jun 2019	Resource Person MEC532 Mechanical Engineering Design 2.
Jan 2016 – Jun 2017	Resource Person MEC424 Applied Mechanics Laboratory.
01.06.2014 – 31.05.2016	Appointment as the member of Research Interest Group (RIG), Entity of Excellence Tier 5 UiTM – Photonics and Materials Research.
Jan 2007 – Dis 2008	Head/ Coordinator of Post-Graduate Program, EM780 (MSc) & EM990 (Ph.D), Faculty of Mechanical Engineering, Universiti Teknologi MARA Malaysia, Shah Alam. Involved in Postgraduate Studies Affairs.
Jan 2007 – Dis 2008	Member of Faculty Academic Board (Lembaga Akademik Fakulti), Faculty of Mechanical Engineering, Universiti Teknologi MARA Malaysia, Shah Alam.
Feb 2006 – Jan 2007	Coordinator for Unit of Research, Development & Commercialization, URDC, Faculty of Mechanical Engineering, Universiti Teknologi MARA Malaysia, Shah Alam.
Mac 2006 – Feb 2009	Lecturer, DM45, Faculty of Mechanical Engineering, UiTM.
June 2002 – Feb 2006	Young Lecturer, DM41, Faculty of Mechanical Engineering, UiTM.

## Education Background

- **PhD in Mechanical Engineering** - Universiti Teknologi MARA Malaysia, Shah Alam, June 2010 – Oct 2014.
- **Master of Science in Mechanical Engineering** - Universiti Teknologi MARA Malaysia, UiTM Shah Alam, May 2002 – March 2006.
- **Bachelor of Science in Aerospace Engineering** University of Missouri-Rolla (Missouri Science & Technology University), Rolla, Missouri, U.S.A: Fall 1995 – Fall 1997.
- Pusat Pendidikan Persediaan/ ITM: American Associate Degree (AAD) Program; MUCIA/ Indiana University; May 1992 – Aug 1995.
- Maktab Rendah Sains MARA, Perlis; Jan 1990 – Dis 1991 – Obtained Sijil Pelajaran Malaysia: 9 Aggregate, Grade 1.

- Sekolah Menengah Pokok Sena, Pokok Sena, Kedah: Jan 1987 – Dis 1989 – Obtained Sijil Rendah Pelajaran: 10 Aggregate.
- Sekolah Kebangsaan Pokok Sena, Pokok Sena, Kedah: Jan 1985 – Dec 1986.
- Sekolah Rendah Kebangsaan Bohor, Kota Setar, Kedah: Jan 1982 – Dec 1984.
- Sekolah Kebangsaan Sentul Pasar, Kuala Lumpur, K.L.: Jun – Dec 1981.
- Sekolah Rendah Kebangsaan Bohor, Kota Setar, Kedah: Jan – June 1981.

## Professional Affiliations/ Membership

Malaysia Board of Technology, MBOT Membership No: PT21080636	26/08/21 – Present
Board of Engineers Malaysia, BEM Membership No: 42232A	Jan 2003 – Present
Institution of Engineers Malaysia, IEM Membership No. 0048 G 36863	Nov 2006 – 2008
National Geographic Society, NGS Membership No: NF 426188688	Aug 2004 – Present
Society of Automotive Engineers – International, SAE Membership No: 6115095661;	July 2005 – Present
American Institute of Aeronautics & Astronautics, AIAA. Membership No: 274844	Sep 2006 – Present

## CHAIRMAN – EXAMINER – PANELIST-ACADEMIC

### Chairman/Judge

1. Chairman Defense of Research Proposal for Master by Research EM750, Faculty of Mechanical Engineering, UITM, Muhammad Syafiq Bin Idris, 2019698182, titled “*Numerical Study of Water/Ethylene Glycol Based Hybrid Al<sub>2</sub>O<sub>3</sub>:AlO<sub>2</sub> Nanofluids In Cooling Plate Of PEMFC*”, 12 June 2020.
2. Chairman Defense of Research Proposal for Master by Research EM750, Faculty of Mechanical Engineering, UITM, Nur Saiful Anwar Bin Sainen, 2018454744 titled “*Design and Simulation of a Plastic Injection Molding for Toy Products Based on WPC Compound Hybrid Natural Fibers (NF) In the Presence of Nanosilica As Filter*”, 24 April 2020.
3. Chairman Viva/Voce Session, Master by Research EM750, Faculty of Mechanical Engineering, UITM, Mohd Faiz Osrin, 2017853542, Titled “*Passive Flow Control Around Uniform and Non-Uniform Perforated Shroud Cylinder*”, 26 June 2020.
4. Chairman Defense of Research Proposal for Master by Research EM750, Faculty of Mechanical Engineering, UITM, Mohammad Azeeb Bin Mazlan, 2020189531, titled “*Development of Assistive Adaptive Device for Tetra-Phocomelia Patient Using 3D Printing Technology*”, 13 November 2020.
5. Chairman Viva/Voce Session, Master by Research EM750, Faculty of Mechanical Engineering, UITM, Muhammad Syahmi Yusof, 2017547849, titled “*Prediction of Implant Stability in Total Hip Arthroplasty*”, 22 December 2020.
6. Chairman Defense of Research Proposal for Master by Research EM750, Faculty of Mechanical Engineering. UITM, Siti Sharirah Binti Mohamad Noh, 2020968023, “*Hybrid Algorithm of Taguchi Method and Teaching-Learning-based-Optimization For Multi-Objective Optimization of Medical Device*”, 5 February 2021.

## Panelist/Judge

1. Panel Defense of Research Proposal for Doctoral Degree by Research EM950, Faculty of Mechanical Engineering, UITM, Mohamad Azam Shah Bin Aziz Shah, 2019339709, titled “*Finite Element Modelling and Stochastic Model Updating of Bolted Joint Structure*”, 24 April 2020.
2. Panel Defense of Research Proposal for Doctoral Degree by Research EM950, School of Mechanical Engineering, College of Engineering, UiTM, Ts. Ir. Abdul Malik Hussein Bin Abdul Jalil, 2020642754, titled “*Process Optimization of a 3D Printed Curve Notched Shell*”, Online Session 12 August 2021.

## Thesis Examiner/ Panelist

1. Internal Examiner for Master of Science Student Thesis EM790: *A BWB UAV Aerodynamic Loading Determination and Airframe Design Using CAE*, Faculty of Mechanical Engineering, Mohamad Razip Bin Abdullah, Universiti Teknologi MARA, Shah Alam, October 2009.
2. Internal Examiner for Master EM750: *Analysis of Heat Distribution in Friction Stir Welding Using Finite Element Method*, Mohammad Shamil Bin Jaffarullah, Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, March 2016.
3. Internal Examiner for Master EM750: *Characterization and Model Updating of Modal Parameters of a Riveted Joints Structure*, 2014605354 – Nor Azela Binti Tormodi, Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, September 2017.
4. Internal Examiner for Master EM750: *The Reconciled Finite Element Model of Riveted Jointed Structure for Crash Analysis*, 2014743969 – Nor Munirah Binti Hassin, Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, October 2017.
5. Internal Examiner for Master EM750: *Frequency Response Function Based Model Updating* 2016883666 – Mohd. Syazwan Bin Mohd. Zin, Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Jun 2018.

## Dissertation Examiner/Panelist

1. Panelist: Presentation of Industrial Project Dissertation (MEM798), Master in Engineering Management (EM774/EM704), September 2014 – January 2015; Mohamad Syahrulnizam Bin Mohamed Yusop, 7 January 2015.
2. Panelist: Presentation of Industrial Project Dissertation (MEM798), Master in Engineering Management (EM774/EM704), March – July 2015; Siti Zubaidah Binti Sheikh Abdul Rahim, 10 June 2015.

## Conference Paper Review Panel

1. Paper Review Panel: Conference of Scientific and Social Science Research 2010, CSSR2010, Universiti Teknologi MARA Malaysia, Shah Alam, Kuala Lumpur, December 2010.
2. Paper Review Panel for 2011 IEEE Colloquium on Humanities, Science and Engineering Research, CHUSER 2011, Penang, Malaysia, 5 – 6 December 2011.
3. Paper Review Panel for 2012 IEEE Symposium on Humanities, Science and Engineering (SHUSER 2012), KUALA Lumpur, Malaysia, 24 – 27 June 2012.
4. Paper Review Panel for International Conference on Advances in Mechanical Engineering 2015 (ICAME 2015), Bali, Indonesia.

5. Paper Review Panel for International Conference on Advances in Mechanical Engineering 2017 (ICAME 2017), Krabi, Thailand.
6. Paper Review Panel for International Conference on Aviation Technology and Management 2018 (ICATeM 2018), Kuala Lumpur, Malaysia.
7. Paper Review Panel for International Conference on Biomechanics and Medical Engineering 2018 (ICBME 2018), Kuala Lumpur, Malaysia.

### Conference Panel Member

1. Committee Member, International Conference on Advances in Mechanical Engineering 2009 (ICAME09), Concorde Hotel, Shah Alam, Malaysia, 24 - 25 June 2009.

### Conference Session Chairman

1. Session Chair, International Conference in Advances of Mechanical Engineering 2010, ICAME2010, held at Shah Alam Convention Center (SACC), Shah Alam, Selangor, Malaysia, 2 – 5 December 2010.
2. Session Chair, International Conference on Science & Social Research (CSSR2010), Kuala Lumpur, Malaysia, 5 – 7 December 2010.

### Journal Review Panel Member

1. Paper Reviewer for International Journal of Mechanical Engineering, Faculty of Mechanical Engineering, Universiti Teknologi MARA, 2015.
2. Paper Reviewer for Journal Teknologi, Universiti Teknologi Malaysia, 75:8 (2015) www.jurnalteknologi.utm.my, eISSN 2180–3722. (SCOPUS Indexed)
3. Paper Reviewer for International Journal of Mechanical Engineering, Faculty of Mechanical Engineering, Universiti Teknologi MARA, 2020. (SCOPUS Indexed)

### Journal Paper Reviewer

1. Reviewer for Manuscript for Journal of Mechanical Engineering titled “*Computational and experimental analysis of flow parameters with Bio-Inspired modified radiator fan for an effective cooling*”, code number IJMeche/P20-13, 19 June 2020.

## PUBLICATIONS

### Journal Papers

1. **Ramzyzan R.**, Kuntjoro, W. “*An Analysis of Stress over Riveted Repair on a Stiffened Panel*”, Journal of Mechanical Engineering, Vol. 2. No.1 UiTM Shah Alam, June 2005.
2. **Ramzyzan R.**, Kuntjoro, W. “*An Analysis of Stress over Bonded Repair on a Stiffened Panel*”, Journal of Mechanical Engineering, Vol. 4. No. 1 UiTM Shah Alam, June 2007.
3. **Ramzyzan R.** Nuraisyah C.A., “*Passengers with Disabilities in Commercial Air Carriers: A Comparative Approach of The Laws and Practices in Malaysia, UK and USA.*” Malaysian Journal for Consumer Association and Family Economics (MAJCAFE), Vol. 10, 2007.
4. Mamat, A. M. I., Mohd Nasir, R. E., Ngah, Z., Kuntjoro, W., Wisnoe, W., **Ramzyzan R.**, “*Aerodynamics of Blended Wing Body (BWB) Unmanned Aerial Vehicle (UAV) Using Computational Fluid Dynamics (CFD) for Low Sub-Sonic (Mach 0.3) Speed Regime*”, Journal of Mechanical Engineering, Vol. 5 No. 2, UiTM Shah Alam, October 2008.

5. Nuraisyah Chua Abdullah & **Ramzyzan Ramly**, “*Bad Luck for Disabled Airlines Passengers in Malaysia?*” *Malayan law Journal*, [2009] vol. 4, (July –August), xxiii – xxxiii.
6. **Ramzyzan Ramly**, Wahyu Kuntjoro, Wirachman Wisnoe, Rizal Effendy Mohd Nasir, Aman Mohd Ihsan Mamat, *Design and Development of Lab-Based Wing Test Rig for Static Test*. Engineering Today Monthly Journal December 2010. Vol XII, Issue 12. (p. 87-90), ISSN 0974-8377.
6. **Ramzyzan Ramly**, W Kuntjoro, MKA Rahman, *Using Embedded Fiber Bragg Grating (FBG) Sensors in Smart Aircraft Structure Materials*, Journal of Procedia Engineering, Vol. 41, 600-606, Elsevier, 2012. (SCOPUS Indexed).
7. **Ramzyzan Ramly**, Wahyu Kuntjoro, Mohd Kamil Abd Rahman, *Embedded FBG Sensor in Aircraft Smart Composite Materials for Structural Monitoring*, Journal of Applied Mechanics and Materials, Vol. 393, 311-316, 2013. (SCOPUS Indexed)
8. **Ramzyzan Ramly**, Wahyu Kuntjoro, Wirachman Wisnoe, Rizal Effendy Mohd Nasir, Aman Mohd Ihsan Mamat, Firdaus Mohamad, *Determination of Delamination Size in Honeycomb Sandwich Panel Using Finite Element Method*, Journal Teknologi, 75:8 (2015) 89–93| www.jurnalteknologi.utm.my | eISSN 2180–3722. (SCOPUS Indexed)
9. Wirachman Wisnoe, Rizal E.M. Nasir, **Ramzyzan Ramly**, Wahyu Kuntjoro, Firdaus Muhammad, *Aerodynamic of UiTM's Blended-Wing-Body Unmanned Aerial Vehicle Baseline-II Equipped with One Central Vertical Rudder*, Journal Teknologi, 75:8 (2015) 95-99| www.jurnalteknologi.utm.my | eISSN 2180–3722. (SCOPUS Indexed)
10. Rizal E. M. Nasir, Firdaus Mohamed, **Ramzyzan Ramly**, Aman M. I. Mamat, Wirachman Wisnoe and Wahyu Kuntjoro, *Flight Performance of Various Blended Wing-Body Small UAV Designs*, 75:8 (2015) 71-75, www.jurnalteknologi.utm.my, eISSN 2180–3722. (SCOPUS Indexed)
11. Nuraisyah Chua Abdullah, **Ramzyzan Ramly**, *Achieving Social Justice through Hybrid Rural and Urban Model of Community Based Tourism: A Conceptual Framework*, *Social and Management Research Journal, SMRJ: Volume 13, No 1, June 2016 ISSN 1675-7017*. (SCOPUS Indexed)
12. Naziratie Assrinie Assan, Amir Radzi Ab. Ghani, **Ramzyzan Ramly**, *Crush Response of Stacked Square Toroidal Tubes with A Central Tube*, Journal of Mechanical Engineering, Vol SI 4(4), 1-14, 2017, ISSN 1823- 5514, eISSN 2550-164X. (SCOPUS Indexed)
13. **Ramzyzan Ramly**, Wahyu Kuntjoro, Amir Radzi Abdul Ghani, Rizal Effendy Mohd Nasir, and Zulkifli Mohamed, *Multi-configuration Stiffened Panels under Compressive Load: Part 1 – Theoretical Analysis*, International Journal of Engineering & Technology, 7 (3.11) (2018) 38-42. (SCOPUS Indexed)
14. Wahyu Kuntjoro, **Ramzyzan Ramly** and Najmuddin Assanah, *Measuring Variable Amplitude Loading with Fibre Optic*, AEROTECH VII - Sustainability in Aerospace Engineering and Technology, IOP Conf. Series: Materials Science and Engineering 405 (2018) 012008 doi:10.1088/1757-899X/405/1/012008. (SCOPUS Indexed)
15. Z. Mohamed, M.A.M Anuar, **R. Ramly**, M.A Anuar, S. Khusairi, K.S.M Sahari, *Energy and Path Optimization of Robot Arm Simulator Via Multi-Objective Evolutionary Algorithm*, International Conference on Robotics and Intelligent System (ICRIS 2018), Seri Pacific Hotel Kuala Lumpur, Sept 2018. (SCOPUS Indexed)
16. **Ramzyzan Ramly**, Amir Radzi Abdul Ghani, Rizal Effendy Mohd Nasir, Zulkifli Mohamed, Wahyu Kuntjoro, *Multi-Configuration Stiffened Panels under Compressive Load: Part 2 – Finite Element Analysis*, International Journal of Engineering & Technology, 7 (4.25) (2018) 160-162. (SCOPUS Indexed)
17. Amir Radzi Ab. Ghani, M. Fitri Hassan, **Ramzyzan Ramly**, *Design and Analysis of a Formula SAE Car Engine Restrictor*, International Journal of Engineering & Technology, 7 (4.25) (2018) 181-184. (SCOPUS Indexed)

18. **Ramzyzan Ramly**, Wahyu Kuntjoro, Amir Radzi Ab Ghani, *Honeycomb Carbon Sandwich Composite Panel under Compressive Load Flat-wise: Experimental Analysis*, Journal of Mechanical Engineering, 17(3), 13-26 (2020). (SCOPUS Indexed)

## Paper Presentations

1. **Ramzyzan R.**, Kuntjoro, W. “*Stress Analysis of a Riveted Patch Repair on a Stiffened Panel (Aircraft Stiffened Skin Structure)*,” presented at Conference on Scientific & Social Research, CSSR 2004; IRDC UiTM; Crown Plaza Riverside Hotel, Kuching Sarawak; Mei 2004.
2. **Ramzyzan R.**, Kuntjoro, W., J Mahmood, “*Analysis of Stress on an Aircraft Stiffened Panel Using ANSYS*”, 5<sup>th</sup> ANSYS User Conference, Singapore, March 2005.
3. **Ramzyzan R.**, Kuntjoro, W. “*A Bonded Patch Repair Stress Analysis on A Stiffened Panel*”, National Conference on Advances in Mechanical Engineering 2005, NAME '05, Mid Valley, Kuala Lumpur, 19 – 20 May 2005.
4. **Ramzyzan R.**, Kuntjoro, W. “*Stress Analysis of a Riveted Patch Repair on a Stiffened Panel (Aircraft Stiffened Skin Structure)*” Conference on Scientific and Social Research, CSSR 2005, IRDC UiTM, Kuala Terengganu, Terengganu, 10 – 12 June 2005.
5. **Ramzyzan R.**, Nuraisyah C.A., “*Prevention of Hijackings through Usage of High Technology and Better Management of Human Resource in Commercial Aircrafts: Balancing the Rights of Passengers and Liabilities of Air Carriers.*” Paper presented at National ICT Conference 2006, Perlis, 17 January 2006.
6. **Ramzyzan R.**, Nuraisyah C.A., “*Liability of Air Carriers Business: Role of ICT in Reducing Aircraft Accidents*” Paper presented in National Conference in Social Science and ICT, CONSICT 2006, Langkawi 15-16 July 2006.
7. **Ramzyzan R.**, Nuraisyah C.A., “*Passengers with Disabilities in Commercial Air Carriers: A Comparative Approach of The Laws and Practices in Malaysia, UK and USA.*” Paper presented in the Conference of Consumers in Kuala Terengganu organized by MACFEA & UPM, 3 – 4 September 2006.
8. **Ramzyzan R.**, Nuraisyah C.A., “*Aircraft Accidents: Unethical Practices and Legal Implication in Aircraft Operation.*” Presented in UUM Law Seminar, Universiti Utara Malaysia, UUM, Kedah, 18 – 20 April 2007.
9. **Ramzyzan R.**, Idris Saad, “*Determination of Centroid for Optimum Shape of Cam in Frictionless Inertial Mass Torque Transfer Device*” Presented in Conference on Advance in Design and Manufacturing Engineering 2007, CADME07, Perlis, October 2007.
10. Idris Saad, **Ramzyzan R.**, “*Determination of Shaft Dimension for the Inertial Frictionless Torque Transfer Device for Automotive Transmission*” Presented in Conference on Advance in Design and Manufacturing Engineering 2007, CADME07, Perlis, October 2007.
11. **Ramzyzan R.**, Idris Saad, “*Determination of Torque for Optimum Shape of Cam in Frictionless Inertial Mass Torque Transfer Device*” International Conference on Mechanical and Manufacturing Engineering 2008 (ICME 2008), Johor Bahru, Johor, May 2008.
12. Mamat, A. M. I., Mohd Nasir, R. E., Kuntjoro, W., Wisnoe, W., **Ramzyzan R.**, Anuar, A. T., “*Aerodynamics Characteristics Determination of High Subsonic Aerial Target Drone Using CFD at 0.7 Mach Number*”, International Conference on Mechanical and Manufacturing Engineering 2008 (ICME 2008), Johor Bahru, Johor, May 2008.
13. Mohd Nasir R.E, Mamat A.M.I., Ngah Z, Kuntjoro W, Wisnoe W, and **Ramly R.**, “*Aerodynamics of Sub-Sonic Blended Wing Body (BWB) Unmanned Aerial Vehicle (UAV) Using Computational Fluid Dynamics*

- (CFD)'' International Conference on Mechanical and Manufacturing Engineering 2008 (ICME 2008), Johor Bahru, Johor, May 2008.
14. Wirachman Wisnoe, Aman Mohd Ihsan Mamat, Rizal Effendy Mohd Nasir, Wahyu Kuntjoro, **Ramzyzan Ramly**, ''Wind Tunnel Experiments of blended Wing Body (BWB) Unmanned Aerial Vehicle (UAV) at Loitering Phase'', International Conference on Mechanical and Manufacturing Engineering 2008 (ICME 2008), Johor Bahru, Johor, May 2008.
  15. **Ramzyzan Ramly**, Nuraisyah Chua Abdullah, ''Addressing the Needs of Disabled Passengers Through Engineering Designs of Aircrafts and Mobility Devices, Laws and Practices'', 2<sup>nd</sup> Asia-Euro Tourism, Hospitality & Gastronomy Conference 2008, Taylor 's College, School of Hospitality & Tourism, Petaling Jaya , Malaysia, 21 – 22 November 2008.
  16. **Ramzyzan R.**, Idris S., David N.V., ''Performance Analysis of An Inertial Frictionless Torque Transfer Device for Automotive Transmission'', Conference of Social and Scientific Research CSSR2008- 2009, A'Famosa Resort, Melaka, Malaysia 13 – 15 March 2009.
  17. **Ramzyzan R.**, Kuntjoro, W., Wisnoe, W., Mohd Nasir, R. E., Mamat , A. M. I., *Design and Development of Lab-Based Wing Test Rig for Static Test*, International Conference on Advances in Mechanical Engineering 2009 (ICAME09), Concorde Hotel, Shah Alam, Malaysia, 24-25 June 2009.
  18. **Ramzyzan R.**, Norfahatul K. A.M., *Finite Element Analysis of Wing Mounting Plate of a Wingbox Test Rig*. International Conference on Applications And Design in Mechanical Engineering (ICADME 2009), Penang, Malaysia, 11-13, October 2009.
  19. **Ramzyzan R.**, Kuntjoro, W., Wisnoe, W., Mohd Nasir, R. E, *Finite Element Analysis of Frame Profiles for the Development of Static Wing Box Test Rig*, International Conference on Advances in Mechanical Engineering 2010 (ICAME2010), Shah Alam, Selangor, Malaysia, 2-5 December 2010.
  20. Rizal E. M. Nasir, Wahyu Kuntjoro, Wirachman Wisnoe, Zurriati Ali, Norfazira Reduan, Firdaus Mohamad, **Ramzyzan Ramly**, *Aerodynamics and Longitudinal Static Stability of Baseline-II Blended Wing-Body Aircraft Variants*. International Conference on Advances in Mechanical Engineering 2010 (ICAME2010), Shah Alam, Selangor, Malaysia, 2-5 December 2010. (IEEE Indexed)
  21. Matzaini Katon, Wahyu Kuntjoro, **Ramzyzan Ramly**, Rizal Effendy Mohd Nasir *Progress in the Airframe Design of BWB-Baseline II E2 UAV with Canard*, International Conference on Advances in Mechanical Engineering 2010 (ICAME2010), Shah Alam, Selangor, Malaysia, 2-5 December 2010. (IEEE Indexed)
  22. **Ramzyzan Ramly**, Wahyu Kuntjoro, Wirachman Wisnoe, Rizal Effendy Mohd Nasir, *Design and Analysis for Development of a Wing Box Static Test Rig*, International Conference on Science & Social Research (CSSR2010), Kuala Lumpur, Malaysia, 5 – 7 December 2010. (IEEE Indexed)
  23. Rizal E. M. Nasir, Wahyu Kuntjoro, Wirachman Wisnoe, Zurriati Ali, Norfazira Reduan, Firdaus Mohamad, **Ramzyzan Ramly**, *Static Stability of Baseline-II Blended Wing- Body Aircraft at Low Subsonic Speed: Investigation via Computational Fluid Dynamics Simulation*. International Conference on Science & Social Research (CSSR2010), Kuala Lumpur, Malaysia, 5 – 7 December 2010. (IEEE Indexed)
  24. **Ramzyzan Ramly**, W Kuntjoro, MKA Rahman, *Using embedded fiber bragg grating (FBG) sensors in smart aircraft structure materials*, Presented on International Symposium on Robotics Intelligent Sensors 2012 (IRIS 2012), Kuching, Sarawak, 4 – 6 September 2012. (SCOPUS Indexed)
  25. **Ramzyzan Ramly**, Wahyu Kuntjoro, Mohd Kamil Abd Rahman, *Embedded FBG Sensor in Aircraft Smart Composite Materials for Structural Monitoring*, Presented on International Conference of Advances on Mechanical Engineering, ICAME2013, Melaka, 28 – 29 August 2013. (SCOPUS Indexed)
  26. **Ramzyzan Ramly**, Wahyu Kuntjoro, Wirachman Wisnoe, Rizal Effendy Mohd Nasir, Aman Mohd Ihsan Mamat, Firdaus Mohamad, *Determination Of Delamination Size In Honeycomb Sandwich Panel Using Finite Element Method*, Presented on International Conference of Advances on Mechanical Engineering 2015, ICAME2015, Patra Jasa Bali, Indonesia, 26-27 August 2015. (SCOPUS Indexed)



27. Rizal E. M. Nasir, Firdaus Mohamed, **Ramzyzan Ramly**, Aman M. I. Mama, Wirachman Wisnoe and Wahyu Kuntjoro , *Flight Performance of Various Blended Wing-Body Small UAV Designs*, Presented on International Conference of Advances on Mechanical Engineering 2015, ICAME2015, Patra Jasa Bali, Indonesia, 26-27 August 2015. (SCOPUS Indexed)
28. Wirachman Wisnoe, Rizal E.M. Nasir, **Ramzyzan Ramly**, Wahyu Kuntjoro, Firdaus Muhammad, *Aerodynamic of UiTM's Blended-Wing-Body Unmanned Aerial Vehicle Baseline-II Equipped with One Central Vertical Rudder*, Presented on International Conference of Advances on Mechanical Engineering 2015, ICAME2015, Patra Jasa Bali, Indonesia, 26-27 August 2015. (SCOPUS Indexed)
29. Nuraisyah Chua Abdullah, **Ramzyzan Ramly**, *Achieving Social Justice through Hybrid Rural and Urban Model of Community Based Tourism: A Conceptual Framework*, Presented at International Conference of Social & Science Conference, Shah Alam, Selangor Malaysia, 5 – 6 October 2015. (SCOPUS Indexed)
30. Nuraisyah Chua Abdullah, **Ramzyzan Ramly**, Azni Md Dian, Baseline Study on Vendor's Disclosure and Owner's Title Assurance Compensation Law in Malaysia, 13<sup>th</sup> NAPREC Conference, National Institute of Valuation (INSPEN), 19 September 2017.
31. Nuraisyah Chua Abdullah, **Ramzyzan Ramly**, Muhammad Izwan Ikhsan, Home Buyers' and Vendors' Behaviours: Analysis of judicial decisions, AQoL2017Kuching, 3rd ABRA International Conference on Quality of Life "Quality of Life 3" Riverside Majestic Hotel, Kuching, Malaysia, 14-16 Oct 2017.
32. Nuraisyah Chua Abdullah, **Ramzyzan Ramly**, Muhammad Izwan Ikhsan, In Search of Home Sweet Home: Between theory and reality, AQoL2017Kuching, 3rd ABRA International Conference on Quality of Life "Quality of Life 3" Riverside Majestic Hotel, Kuching, Malaysia, 14-16 Oct 2017.
33. Nuraisyah Chua Abdullah, **Ramzyzan Ramly**, Muhammad Izwan Ikhsan, Land Registration of Titles at Stake: West and East Malaysia compared, AQoL2017Kuching, 3rd ABRA International Conference on Quality of Life "Quality of Life 3" Riverside Majestic Hotel, Kuching, Malaysia, 14-16 Oct 2017.

## Technical Reports & Thesis

1. **Ramzyzan R.**, Kuntjoro, W. "Stress Analysis of a Riveted Patch Repair on a Stiffened Panel (Aircraft Stiffened Skin Structure)" Research Report submitted to IRDC, Universiti Teknologi MARA Malaysia, Shah Alam, April 2004
2. **Ramzyzan R.**, Kuntjoro, W. "Stress Analysis of a Riveted Patch Repair on a Stiffened Panel (Aircraft Stiffened Skin Structure)" Research Report submitted to IRDC, Universiti Teknologi MARA Malaysia, Shah Alam, April 2005
3. **Ramzyzan R.** "Stress Analysis of a Riveted and Bonded Patch Repairs on a Stiffened Panel" Unpublished Master Thesis, Universiti Teknologi MARA Malaysia, Shah Alam, December 2005.
4. **Ramzyzan R.** Idris Saad, David, N.V., "Performance Analysis of An Inertial Frictionless Torque Transfer Device for Automotive Transmission", Research Report submitted to IRDC, Universiti Teknologi MARA Malaysia, Shah Alam, June 2007.
5. **Ramzyzan Ramly**, Wahyu Kuntjoro, Wirachman Wisnoe, Rizal Effendy Mohd Nasir, "Design Parameters for the Development of Wing Test Rig for Static Test Experiment", Research Report Submitted to Research Management Institute (RMI), Universiti Teknologi MARA Malaysia, Shah Alam, April 2011.
6. **Ramzyzan R.** "Delamination Monitoring of Honeycomb Sandwich Panel for Aircraft Structure using Fiber Bragg Gratings" Unpublished PhD Thesis; Universiti Teknologi MARA Malaysia, Shah Alam, October 2014.

## RESEARCH – CONSULTATION

### Research

1. **Head of IRDC/UiTM STG Research** – “*Stress Analysis of a Riveted Patch Repair on a Stiffened Panel (Aircraft Stiffened Skin Structure)*”, FKM, Shah Alam; April 2003 – Mac 2004; RM10, 000. Project File No. 600-IRDC/ST.5/3/556
2. **Head of IRDC/UiTM STG Research** – “*Stress Analysis on A Bonded Patch Repair on a Stiffened Panel (Aircraft Stiffened Skin Structure)*”, FKM, Shah Alam; Mei 2004 – Mei 2005; RM20, 000.
3. **Head of IRDC/UiTM STG Research** – “*Performance Analysis of An Inertial Frictionless Torque Transfer Device for Automotive Transmission*”, FKM, Shah Alam, November 2005 – April 2007; RM14, 000.
4. **Head of FRGS Research** – “*Design Parameters for the Development of Wing Test Rig for Static Test Experiment*”, FRGS 1<sup>st</sup> Cycle 2008, MOHE, Malaysia. RM48,000. Project No. 600-RMI/ST/FRGS 5/3/Fst (31/2008) November 2008 – October 2010.
5. **Member of FRGS Research** – “*Fatigue Load Parameters Measurement By Fiber Bragg Gratings Sensing Under Variable Amplitude Loading*” FRGS 1<sup>st</sup> Cycle 2010, MOHE, Malaysia. RM32,000. Project No. 600-RMI/ST/FRGS 5/3/Fst (104/2010). April 2010 – March 2012.
6. **Member of Dana RIF Research** – “*Monitoring Delamination Behaviour in Carbon Fibre Reinforced Polymer (CFRP) Honeycomb Core Sandwich Composite Panel Using Embedded Fibre Bragg Gratings (FBG) Arrays*”, Dana Research Intensive Fund, Dana RIF, Universiti Teknologi MARA, RM32,000. Project No. 600-RMI/DANA 5/3/RIF (715/2012). 1 December 2012 – 30 November 2014.
7. **Member of FRGS Research** – “*Flight Dynamics of Blended Wing-Body (BWB) with Blended Tail-Body (BTB)*”, FRGS, MoE, Malaysia, RM123,200.00 Project No. 600-RMI/FRGS 5/3 (103/2014), FRGS/1/2014/TK09/UITM/02/1. 01-07-2014 - 30-06-2016.
8. **Member of PRGS Research** – “*Blended Wing-Body Micro-Class Unmanned Aircraft Prototype For Aerial Surveillance*”. PRGS, MoE, Malaysia, RM 180,000.00, Project No. 600-RMI/PRGS 5/3 (3/2014). 01-08-2014 - 31-07-2016.
9. **Member of CLMV Research** – “*Consolidating Agritourism Through Legal & Policy Framework And Education In Cambodia*” Cambodia Laos Myanmar Vietnam Research Fund, IPPTN, MOE, Malaysia. RM 85,000.00, Project No. 100-RMI/GOV 16/6/2 (10/2014), 01-12-2014 - 31-08-2015.
10. **Member of FRGS Research** – “*Crushing Behaviour of Enclosed Tubular Structures For Energy Absorption*” FRGS, MoE, Malaysia, RM92,200.00, Project No. 600-RMI/FRGS 5/3 (11/2015), FRGS/1/2015/TK03/UITM/02/7, 2-11-2015 – 1-11-2017.
11. **Head of LESTARI Research** – “*Using Embedded Sensors for Analyzing Multi-Configuration Stiffened Panels Under Compressive Loads*” UiTM Lestari Grant. RM20,000.00, Project No. 600-RMI/DANA 5/3/LESTARI (84/2015), 01-12-2015 – 30-11-2017.
12. **Member of NAPREC (Other External) Research** – “*Baseline Study on Vendor’s Disclosure and Owner’s Title Assurance Compensation Law in Malaysia,*” NAPREC Research Grant, Institut Penilaian Negara (Inспен), Jabatan Penilaian Harta, Kementerian Kewangan Malaysia, RM50,000, Project No. 100-IRMI/GOV 16/6/2 (0022/2016), 1-07-2016 – 30-06-2017.
13. **Head of FRGS Research** – “*Performance Characteristics of Inertia Induced Torque Converter*”, Fundamental Research Grant Scheme, FRGS, MOHE, RM65,500. Project No. FRGS/1/2016/TK03/UITM/02/7, 1-08-2016 – 31-07-2018.
14. **Member of FRGS Research**, “*Characterisation of Natural Frequencies and Damping Ratios of Flight Oscillation Modes Affected by Multiple-Elevon Deflection Angles*”, FRGS, MoHE RM117,200.00.

Project No. 600-RMI/FRGS 5/3 (0117/2016). Sponsorship File No. FRGS/1/2016/TK09/UITM/02/1. 1-8-2016 – 31-07-2018.

15. **Member of Private Grant Research.** “*Fiber Optic Sensing Low Cycle Fatigue Analysis*”, Private Grant RM70,200.00, Project No 100-IRMI/PRI 16/6/2 (011/2017), 1-1-2017 – 31-12-2018.
16. **Member of KPT National Grant Research.** “*Design and Development of an Autonomous Electric Vehicle Platform And Drive System For UiTM -AV1*”, KPT Grant RM75,000.00, Project No 600-IRMI/KPT 5/3/TR (001/2017)-6, 1-10-2017 – 30-11-2018.
17. **Member of Perdana Bestari Grant Research;** “*Flight Performance Optimization of Energy Efficient Blended Wing-Body Aircraft Using Flight Simulation Based On Blade-Element Theory*”, BESTARI PERDANA Grant RM35,000.00, Project No 600-IRMI/PERDANA 5/3 BESTARI (047/2018), 01-01-2018 – 31-12-2019.
18. **Member of NAPREC (Other External) Research.** “*The Legal Framework And Governance Of Short-Term Accommodation In Malaysia: The Way Forward*”. NAPREC Research Grant, Institut Penilaian Negara (Inspen), Jabatan Penilaian Harta, Kementerian Kewangan Malaysia, RM33,000.00, Project No. 100-IRMI/GOV 16/6/2 (0022/2016), 01-10-2019 – 31-07-2020.
19. **Member of FRGS Research,** “*Analysis of Bending Behaviour Of Hat-Section Tubes With Internally Stacked Rectangular And Circular Rings*”, FRGS, MOHE, RM65,500.00, Project No. 600-IRMI/FRGS 5/3 (164/2019), 01-01-2019 – 30-09-2021, Project Code 282101180004, Sponsorship File No. FRGS/1/2018/TK03/UITM/02/7
20. **Member of LESTARI Research** – “*Development of Small BWB UAV Wing Box Structure Manufactured By 3d Printing*”, UiTM Lestari Grant. RM20,000.00, Project No. 600-RMC/MYRA 5/3/LESTARI (051/2020), 21-12-2020 – 18-06-2023. Project Code 102113210005

## Consultation

1. Fatigue/Static Analysis on Radar Pressure Box, for Airod Sdn. Bhd., January – March 2007.
2. Strength Analysis & Material Analysis for Transmission Tower, for Alupole Sdn. Bhd, April 2009.
3. Aluette Nose Gear Pressure Test, for AIROD Sdn Bhd, February – March 2012.
4. Testing Vendor for Aviation Design Center, ADC, August 2014 – Present.
5. Co-Consultant, (Assisting Prof. Dr. Nuraisyah Chua Abdullah), Membangunkan Handbook For Setting Up Private Hospitals In Malaysia, Malaysia Productivity Corporation (MPC), 10 November 2016 – 31 January 2017.
6. Co-Consultant, (Assisting Prof. Dr. Nuraisyah Chua Abdullah): Laporan Cadangan Penubuhan Tribunal Untuk Pertikaian Permit Pembinaan di Bawah Inisiatif Q3C Program Transformasi Industry for Construction Industry Development Board (CIDB), 5 October 2017 – 5 March 2018.
7. Co-Consultant, (Assisting Prof. Dr. Nuraisyah Chua Abdullah): To Produce the Malaysia Productivity Blueprint (MPB) Research Grant Framework and Guidelines, Malaysia Productivity Corporation (MPC), 15 February 2018 – 31 March 2018.
8. Official Appointment As Consultant,: Bomb Delivery Rack Unit - 500 (Bdru-500), Professional Services for : Aerospace Technology Systems Corp. (ATSC) Sdn. Bhd., 28 June 2021 – 31 August 2021.

## SUPERVISION

### Supervisions – Graduate/Post-Graduate

1. Co-Supervisor, “Design of Modularity for UAV Structure”, Master of Science in Mechanical Engineering, Mat Zaini Katon, Universiti Teknologi MARA, April 2009 – May 2011. (Main Supervisor: Prof Dr. Ir. Wahyu Kuntjoro), COMPLETED.
2. Co-Supervisor, “Impact Response Of Tubular Structure With Internally Stacked Circular Rings”, Master of Science in Mechanical Engineering, Universiti Teknologi MARA, Nazratie Assrinie Binti Assan, ID No. 2014230324, September 2014 – August 2016. (Main Supervisor: Dr. Ir. Amir Radzi), COMPLETED.
3. Co-Supervisor. “Energy Optimization of Multi Degrees of Freedom Robotic Arm Via Multiobjective Evolutionary Algorithm”. Masters in Mechanical Engineering; EM750; Faculty of Mechanical Engineering Universiti Teknologi MARA, Nik Ariff Bin Nik Ahmad, 2015437626 December 2015 – Present. (Main Supervisor: Dr. Zulkifli Mohamed).
4. Main Supervisor, “Design of Inertial Induced Torque Converter” Masters in Mechanical Engineering, EM750, Faculty of Mechanical Engineering Universiti Teknologi MARA, Mohd Hafiz Othman, 2016 – Dropped 2018.

### Supervision – Undergraduate

1. Co-Supervisor, “*Design and Fabrication of an Automobile Clutch Test Rig*” Final Year Degree Project, May 2006; Mohd Syihan Muhammad.
2. Co-Supervisor, “*Design and Fabrication of the Torque Transfer Device*” Final Year Degree Project, May 2006; Mohd Yazid Alwi.
3. Main Supervisor, “*Design and Development of Single Propeller Engine-Vertical Take-Off Aircraft with the Application of Fins to Act as a Counter Rotation Device*” Final Year Degree Project, November 2006; Mohd Nor Fadhly Mohd Salleh.
4. Main Supervisor, “*Structural Analysis of a 2D Wing Box Test Rig*” Final Year Degree Project, May 2007 – November 2008, Norhidayah Bahari.
5. Main Supervisor, “*Design and Analysis of Wing Mounting Plate of a Wing Box Test Stand*”, Final Year Degree Project, Jan 2008 – Dec 2008, Norfadillah Binti Kamaruddin.
6. Main Supervisor, “*Design and Development of Frictionless Automotive Transmission: Analysis on Input and Output of Power Mechanism*”, Final Year Degree Project, Jan 2008 – Dec 2008, Ahmad Rozi Md Said.
7. Main Supervisor, “*Design and Development of Frictionless Automotive Transmission: Design and Analysis of Support Frame*”, Final Year Degree Project, January 2008 – December 2008; Norhanifah Abdul Halim.
8. Main Supervisor, “*Finite Element Analysis of Wing Mounting Plate of A wing Box Test Stand*”, Final Year Degree Project, January 2008 – December 2008, Norfahatul Khalidah Abd Malek.
9. Main Supervisor, “*Finite Element Analysis of A 2D Structural Frame of A Wing Box Test Stand*”, Final Year Degree Project, January 2008 – May 2009, Siti Syahidah Mohd Rum.
10. Main Supervisor, “*Design and Analysis of Joints of Structural Frame and Wing Mounting Plate of a Wing Box Test Stand*”, Final Year Degree Project, Jan 2008 – May 2009, Mohd Safwan Zulkefley.
11. Main Supervisor, “*Design and Development of Frictionless Automotive Transmission: Performance Analysis of Input and Output Torque*”, Final Year Degree Project, January 2008 – May 2009, Abdul Khalik Md Fakhruddin.

12. Main Supervisor, “*Design and Development of Frictionless Automotive Transmission: Weight and Balance Analysis*”, Final Year Degree Project, January 2008 – May 2009, Mohd Rahizal Ranom.
13. Main Supervisor, “*Design and Development of Frictionless Automotive Transmission: Power Transmission Analysis with a Variable Speed Motor*”, Final Year Degree Project, January 2008 – May 2009, Din Iqbal Bin Mahar Afandi.
14. Main Supervisor, *Development of a Small-Scaled Tapered Wing Box for Static Test*, Final Year Degree Project, July 2009 – May 2010, Timothy Jim Anthony.
15. Main Supervisor, *Development of Actuator System for Applying Load for Wing Box Static Test*, Final Year Degree Project, July 2009 – May 2010, Tengku Kamil Ariff Tengku Hitam.
16. Main Supervisor, *Design and Simulation of a 3D Wing Box Test Rig for Static Test*, Final Year Degree Project, July 2009 – May 2010, Leonard Lanking.
17. Main Supervisor, *Finite Element Analysis of 3D Structure Wing Box Test Rig*, Final Year Degree Project, July 2009 – May 2010, Hasbollah Mohd Said.
18. Main Supervisor, *Kinematic Analysis of a Recumbent Mountain Bike*, Final Year Project: September 2014 – July 2015: Ariff Ridwan Bin Borhan.
19. Main Supervisor, *Front Suspension Structural Analysis of a Recumbent Mountain Bike*. Final Year Project: September 2014 – July 2015: Syarafuddin Bin Mohd Yusoff.
20. Main Supervisor, *Front Suspension Kinematic Analysis of a Recumbent Mountain Bike*. Final Year Project: September 2014 – July 2015: Mohd Khairi Bin Mohamad Yazid.
21. Main Supervisor, *Rear Suspension Structural Analysis of a Recumbent Mountain Bike*. Final Year Project: September 2014 – July 2015: Khairul Anuar Bin Hassan.
22. Main Supervisor, *Drive Train System Analysis of a Recumbent Mountain Bike*. Final Year Project: September 2014 – July 2015, Isyraf Bin Ismail.

### Supervision – Student Activities

1. Assistant Advisor – UiTM Motorsports, May 2017 – Present.
2. Assistant Advisor – Formula SAE Student UITM No 88, Overall Champion Asian 2016, October 2016.
3. Assistant Advisor – Formula SAE Student Australasia UiTM No 45, Ranked 18<sup>th</sup> Place, Calder Park, Melbourne, Australia, 3 -7 December 2016.

### COMPETITION – PATENT – EXHIBITION – AWARDS

#### Competitions and Exhibitions

1. **Ramzyzan R.** “*Stress Analysis of a Riveted Patch Repair on a Stiffened Panel (Aircraft Stiffened Skin Structure)*”, Pameran Penyelidikan dan Pembangunan (R&D) IPTA 2005, Putra World Trade Center (PWTC), 30 September – 2 October 2005.
2. **Ramzyzan R.,** Zulkifli M., Muhammad Azhan A., Mohd Afzan M. A., “*The Modified IVT Torque Converter for Automotive Transmission*”, 7<sup>th</sup> IID 2010 (Invention, Innovation & Design), Universiti Teknologi MARA, Shah Alam, 12-14 January 2010.

3. **Ramzyzan R**, Zulkifli M., Muhammad Azhan A., Mohd Afzan M. A., Radzuan A. R., “*The Modified IVT Torque Converter for Automotive Transmission*” 8<sup>th</sup> Malaysian Technological Expo MTE 2010, Putra World Trade Centre (PWTC), 4 – 6 February 2010.
4. Nuraisyah Chua Abdullah, **Ramzyzan Ramly**, “*A Practical Way to Exhibit Limitation of Strict Liability Clause in Hotels and Resorts*” Research Invention Innovation & Design, RIID2012, Universiti Teknologi MARA Melaka, 7 – 8 November 2012.
5. Nuraisyah Chua Abdullah, **Ramzyzan Ramly**, “*Islamic Tourism Syura Tribunal*” International Islamic Tourism and Hospitality Invention, Innovation and Design, Putra World Trade Centre, Kuala Lumpur Malaysia, 5 – 6 December 2012.
6. Ramzyzan Ramly,” *Bio-Hybrid Recumbent Bicycle*” International Innovation & Design Exposition 2019, IIDEX 2019, DATC, Universiti Teknologi MARA Shah Alam, 10 -15 September 2019.

## Patents

1. Patent Registration File Industrial Design, Titled AIRCRAFT, File No MY16-E0366-0101, Registered on 30 December 2016 – 30 December 2021, through MyIPO, Intellectual Property Corporation of Malaysia.
2. Intellectual Property Registration, Titled “BIO-HYBRID RECUMBENT MOUNTAIN BIKE” applied on 29 August 2019. MyIPO serial number LY2019004898.

## Awards Received

1. Anugerah Kertas Penyelidikan Terbaik (Best Paper Award) in Conference of Scientific & Social Research, CSSR 2004, IRDC UiTM, Crown Plaza Riverside Hotel, Kuching Sarawak, paper titled “Stress Analysis of a Riveted Patch Repair on A Stiffened Panel), Mei 2004.
2. Anugerah Pembentang Terbaik (Best Presentation) in Conference of Scientific & Social Research, CSSR 2004; IRDC UiTM, Kuala Terengganu, Terengganu, paper titled “Stress Analysis on A Bonded Patch Repair on a Stiffened Panel (Aircraft Stiffened Skin Structure), June 2005.
3. Anugerah Perkhidmatan Cemerlang Universiti Teknologi MARA, UiTM 2005, December 2006.
4. Silver Medal, “*The Modified IVT Torque Converter for Automotive Transmission*”, 7<sup>th</sup> IID 2010 (Invention, Innovation & Design), Universiti Teknologi MARA, Shah Alam, 12-14 January 2010.
5. Silver Medal, “*Islamic Tourism Syura Tribunal*” International Islamic Tourism and Hospitality Invention, Innovation and Design, Putra World Trade Centre, Kuala Lumpur Malaysia, 5 – 6 December 2012.
6. Silver Medal “*Aircraft Smart Structure*” Research Innovation Symposium Exhibition, RISE 2015, Faculty of Mechanical Engineering, Universiti Teknologi MARA, DATC UITM Shah Alam.
7. Gold Medal, “*BWB for Surveillance*” IIDex 2016, DATC UiTM Shah Alam.
8. Bronze Medal, “*Bio-Hybrid Recumbent Bicycle*” International Innovation & Design Exposition 2019, IIDEX 2019, DATC, Universiti Teknologi MARA Shah Alam, 15 September 2019.

## CONTRIBUTION/COMMITTEE

### Appointment as Committee University/Faculty

Details of Committee/Panel Member

Duration/ Date

14/15  
Sunday, September 26, 2021

1	Committee member ADHOC Purchase of Equipment Above RM500,000 (Pusat Pengajian Engineering Mechanics & Materials FKM)	1 Jan 2015 – 31 Dec 2016
2	Appointment as the member of Research Interest Group (RIG), Centre of Excellent, Tier 5 UiTM – Photonics and Materials Research.	1 June 2014 – 31 May 2016
3	Appointment as the Project Secretariat for Islamic Practices & Development Training (IPDT) – Saudi Arabia by ARI (Accounting Research Institute), UiTM.	15 Nov 2014 – 30 Nov 2014
4	Committee member of FKM Academic Mission.	2 Jan 2015 – 31 Dec 2015
5	Appointment as the Panel of Evaluation and Second Examiner Final Exam FKM – UiTM Shah Alam.	March 2015 – August 2015
6	Appointment as the Co-Supervisor Final Project, March 2015 – July 2015.	March 2015 – July 2015
7	Appointment as the Committee member of the Innovation Symposium & Exposition (RISE) Invention, Innovation and Design, FKM.	2 Jan 2015 – 31 Dec 2015
8	Appointment as the Panel of Evaluation and Second Examiner Final Exam Engineering Statics (MEC412), FKM – UiTM Shah Alam.	Sept 2015 – Feb 2016
9	Deputy Secretary Persatuan Penduduk Bukit Bandaraya Shah Alam, PPBBSA, Seksyen U11 Shah Alam.	30 Dec 2017 – 30 Dec 2018
10	Appointment as the Panel of Evaluation for Post Graduate Defense Proposal (EM780) – December 2009 – April 2010.	24 May 2010
11	Panelist of the CQI dan Revision of New FKM Syllabus Workshop.	1 June 2010
12	Evaluator for the Industrial Attachment Students, 2015.	2 Sept 2015
13	Panelist: Presentation of Final Project Paper 2 (KJM 660/MEC602/MEM602).	19 Jan 2015
14	Head of Special Examination Session, December 2014 (Khas Banjir).	21 Jan 2015
15	Panelist: Appointment as the Panel of Evaluation for Post Graduate Dissertation (EM774/EM704), September 2014 – January 2015.	7 Jan 2015
16	Appointment as the Panel of Evaluation for Post Graduate Defense Proposal, Mac 2015 – July 2015 .	8 Apr 2015
17	Panelist: Evaluation Progress Presentation MEC532, March 2015 – July 2015, Project “Single Seater Vehicle Design”.	5 May 2015
18	Panelist: Presentation of Final Project Paper 2 (KJM660/MC602/MEM602).	7 & 8 July 2015
19	Second Examiner Final Project Paper 2 (KJM660/MC602/MEM602), March 2015 – July 2015.	22 June 2015
20	Panelist: Evaluation of Final Project Paper 1(MEC601/MEM601/KJM650).	22 June 2015
21	Panelist: Appointment as the Panel of Evaluation for Post Graduate Dissertation (EM774/EM704), March – July 2015.	10 June 2015

## Contributions to Society

	<b>Activities</b>	<b>Duration/ Date</b>
1	Deputy Secretary Persatuan Penduduk Bukit Bandaraya Shah Alam, PPBBSA, Seksyen U11 Shah Alam.	30 Dec 2017 – 30 Dec 2018