

CURRICULUM VITAE



1. **NAME** : MOHAMAD FAKHRUL ZAMAN BIN OMAR
 2. **AGE** : 35 Years
 3. **SEX** : MALE
 4. **DATE OF BIRTH** : 07 APRIL 1984
 5. **PLACE OF BIRTH** : KEDAH, MALAYSIA
 6. **MARITAL STATUS** : MARRIED
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7. **DESIGNATION** :

Senior Research Officer, Field Mechanization Program (ER2), Engineering Research Centre (ER), Malaysian Agricultural Research and Development Institute (MARDI)

8. **EXPERTISE** :

Machine Design, Land levelling, Post-harvest Losses, Irrigation & Drainage System, Paddy Mechanization, Fruits Tree Mechanization

9. **OFFICE ADDRESS** :

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11. **QUALIFICATION** : (University Level)

- a. M.Eng (Innovation & Engineering Design), University Putra Malaysia (UPM); 2017
 - b. B.Eng (Agricultural & Biosystem), University Putra Malaysia (UPM); 2007
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12. **WORKING EXPERIENCE** :

- a. Research Officer, MARDI (2007 – Present)
 - b. Lecturer, Melaka RISDA College (2007)
 - c. Quality Control Engineer, SCS Machineries (2007)
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13. **PROFESSIONAL SOCIETIES** :

- a. Member, Graduate Engineer, The Institution of Engineers Malaysia (IEM)
 - b. Member, Board of Engineer Malaysia (BEM)
 - c. Member, Malaysian Society of Agricultural Engineers (MSAE)
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14. AWARDS :

- a. Gold Medal & Best Award, MARDI Science and Technology Exhibition (MSTE) 2017, Combine Harvester Calibration Towards Reducing Paddy Losses.
- b. Gold Medal, MARDI Science and Technology Exhibition (MSTE) 2016, Quadtrack axial flow combine harvester: improving mobility in soft soil and reducing losses
- c. Bronze Medal, MARDI Science and Technology Exhibition (MSTE) 2016, Recondition Combine Harvesters: Towards Reducing Losses in the Field
- d. Gold Medal, MARDI Science and Technology Exhibition (MSTE) 2015, StrawCut: Combining Operation of Paddy Harvesting and Straw Cutting
- e. Bronze Medal, MARDI Science and Technology Exhibition (MSTE) 2015, Design Concept Of Mechanical Tray Seeder machine to Optimize Hybrid Rice Seedling density
- f. Bronze Medal, MARDI Science and Technology Exhibition (MSTE) 2015, Soft Soil Study in Bukit Jambul Pendang Kedah
- g. Silver Medal, Malaysian Agricultural Invention Show (MAgIS) 2015, Straw Cutter Mounted on Combine Harvester for Harvesting and Land Operation
- h. Bronze Medal, Malaysian Agricultural Invention Challenge (MAgic) 2014, New Concept of Land Management in Paddy Cultivation by Cutting the Straw using Combine Harvester
- i. Bronze Medal, Malaysian Agricultural Invention Challenge (MAgic) 2014, 4 half track system: A solution for mobility in soft soil
- j. Silver Medal, Malaysian Agricultural Invention Challenge (MAgic) 2014, Soil hardpan improvement technique using mole drain with rope application for rice mechanization farm
- k. Silver Medal, Malaysia Technology Expo (MTE) 2012, Express Durian Husk Extractor
- l. Silver Medal, Malaysia Technology Expo (MTE) 2012, Mech-Tugal: Seeding and Fertilizer Application for Upland Rice Production

15. PATENT/ INTELLECTUAL PROPERTIES :

- a. UI 2014703583 (2014), An AERO-Seeder Machine
- b. PI 2013003941 (2013), A Lemongrass Port-Harvest Processing Machine
- c. PI 2012002053 (2012), A Durian Decorticating Machine
- d. PI 2012002053 (2012), A Mechanical Tugal

16. LIST OF PUBLICATION :**Local Referred Journals**

- a. Mohamad Fakhrol Z.O., et al. (2017). Development of Metering Device For Precise Hybrid Rice Seeder, Engineering & Technology Research Vol. 1 No. 1 (2017) p.22-24
 - b. Mohd Taufik A., Mohamad Fakhrol Z.O., et al (2016). Calibration of Load Cells for an Automated Patternator to Measure Distribution Pattern of Boom-type Granular Fertilizer Spreader, Journal of Science & Technology Vol. 03 No. 01(2016) pp. 29-31
 - c. Mohamad Fakhrol Z.O., et al.(2014). Penentuan Keserataan Tanah Sawah Melalui Alat Pengukur Kedalaman Air, Jurnal Teknologi : Special Issue on
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Transformation of Rice and Paddy Industry Through Innovation, Vol 70, No 6 (2014) 25–27

- d. Mohd Khusairy K., Mohamad Fakhrol Z.O., et al. (2014). Pakej Sistem Mekanisasi Padi Aerob, Jurnal Teknologi : Special Issue on Transformation of Rice and Paddy Industry Through Innovation, Vol 70, No 6 (2014) 25–27
- e. Mohd Khusairy K., Mohamad Fakhrol Z.O., et al. (2014). Aerobic rice mechanization: techniques for crop establishment, Journal IOP Materials Science and Engineering

Referred Proceeding/ Bulletin

- a. Mohamad Fakhrol Z.O., et al.(2018). Penyediaan Tanah Sawah Melalui Kaedah Indeks Keserataan, Konferen MSAE 2018, 07-08 Februari 2018, Universiti Putra Malaysia, Serdang, ISBN 978-967-16145
- b. Mohamad Fakhrol Z.O., et al.(2018). Rice field land preparation through levelling index method, National Conference on Agricultural and Food Mechanization 2018 (NCAFM 2018), ISBN 978-967-936-661-7
- c. A. Mohd Taufik., Mohamad Fakhrol Z.O., et al. (2018). Comparison of combine harvesting losses between reconditioned tangential flow combines and axial flow combines in Malaysia, National Conference on Agricultural and Food Mechanization (NCAFM) 2018, ISBN 978-967-936-661-7
- d. Anuar A., Mohamad Fakhrol Z.O., et al.(2018). Mechanical properties of hybrid kenaf fiber reinforced composites: Effect of long fiber and random orientation. National Conference on Agricultural and Food Mechanization (NCAFM) 2018, ISBN 978-967-936-661-7
- e. Jafni J.J., Mohamad Fakhrol Z.O., et al. (2012). Prestasi Alat Pemetik Buah Manggis PMA1, Buletin Teknologi MARDI 2012, Bil 1(2012), 71-76

National and International Conferences

- a. Mohamad Fakhrol Z.O., et al. (2015). Inovasi Mesin Penabur Berbaris Padi Hibrid, Persidangan Kebangsaan Pemindahan Teknologi, 7-9 April 2015. Kuching, Sarawak
 - b. Mohamad Fakhrol Z.O., et al. (2014). Development of Hybrid Rice Row Seeder, National Conference on Agricultural and Food Mechanization, 20-22 May 2014, Kota Kinabalu, Sabah.
 - c. Mohamad Fakhrol Z.O., et al. (2013). Development of metering device for precise hybrid rice seeder, National Forum and Exhibition on Engineering Design (NFEED) 2013, Batu Pahat, Johor
 - d. Mohamad Fakhrol Z.O., et al. (2012). Design of Lemongrass Separator Machine, National Conference On Agricultural and Food Mechanization 2012, 10-12 January 2012, Kuching, Sarawak.
 - e. Mohamad Fakhrol Z.O., et al. (2012). Development of Infrastructure for Water Seeding Technique, National Conference On Agricultural and Food Mechanization 2012, 10-12 January 2012, Kuching, Sarawak
 - f. Mohamad Fakhrol Z.O., et al. (2012). Development of Portable Water Depth Indicator Hand Tool Prototype, National Conference On Agricultural and
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Food Mechanization 2012, 10-12 January 2012, Kuching, Sarawak.

- g. Mohamad Fakhru Z.O., et al. (2011). Irrigation system for commercial production of *Stevia rebaudiana* Bertoni in Malaysia, Conference on Plant Natural Products, 21-22 November 2011, Kota Bharu, Kelantan.
- h. Mohamad Fakhru Z.O., et al. (2011). Prototype of Fruits Tree Harvesting tool, National Horticulture Conference, 18-20 October 2011, Renaissance Melaka Hotel, Malacca.
- i. Mohamad Fakhru Z.O., et al. (2010). A Method to Increase the Yield of Rice Through A Better Land Levelling on Paddy Field, National Rice Conference 2010, 28-30 June 2010, Lumut, Perak.
- j. Mohamad Fakhru Z.O., et al. (2010). Fruits Tree Pruning Machine for Commercial Orchard, Malaysian Science and Technology Congress 2010, 9-11 November 2010, Petaling Jaya, Selangor.
- k. Mohamad Fakhru Z.O., et al. (2010). Preliminary Evaluation Of Mango Harvesting Tool, National Conference On Agricultural and Food Mechanization 2009, 23-25 June 2009, Melaka.

Books

- a. Mohamad Fakhru Z.O., et al. (2017). Design and Development of Portable Upland Rice Seeder, Master Dissertation, University Putra Malaysia, 2017
- b. A. Mohd Taufik, Mohamad Fakhru Z.O., et al. (2017). Prosedur Operasi Standard Pengurangan Kehilangan Lepas Tuai Padi, 2017
- c. A. Mohd Taufik, Mohamad Fakhru Z.O., et al. (2014). Kajian verifikasi kehilangan lepas tuai padi disebabkan jentuai, (MR224), 2014

Books Chapter

- a. A. Mohd Taufik, Mohamad Fakhru Z.O., et al. (2017). Pengurangan Kehilangan Lepas Tuai Padi di Rantaian Penuaian Menggunakan Jentuai (2017), Prosedur Operasi Standard Pengurangan Kehilangan Lepas Tuai Padi
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