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Educational Background

1. M. Eng. Manufacturing Systems Engineering, Universiti Putra Malaysia, Selangor, Malaysia, 2009.
2. B. Eng. Mechanical Engineering, Universiti Tenaga Nasional, Selangor, Malaysia, 2007.

Professional Membership

1. Graduate Member, Board of Engineers Malaysia (BEM), 21 November 2009.
2. Graduate Member, The Institution of Engineers Malaysia (IEM), 2010
3. Member of the Malaysian Society of Engineering and Technology (MSET), 2011

Work Experience

1. Industrial Trainer, Engineering Component Department, Continental Sime Tyre AS Sdn. Bhd., Alor Setar, Kedah, June 2006 – August 2006.
2. Lecturer, School of Manufacturing Engineering, Unversiti Malaysia Perlis, Perlis, July 2009 to date.
3. Postgraduate Researcher, University of Manchester, Manchester, January 2014-December 2017.

Grants Acquired

1. Title: Design And Development of Safe Robot Cell
Awarded by: UniMAP (STG 9001-00214)
Amount: RM 14, 000
Main Researcher: **Norshah Afizi Bin Shuaib**
Co-Reseachers: Azmi bin Harun, Amarul Talip, Mohd Khairul Fadzly Abu Bakar, Mohammad Zamzuri Mohamad Zain
Duration: June 2010 – June 2011
2. Title: Impact of Viscoplastic Bodies : Parameter Identification& Correlation with Experiments on Sport Balls
Awarded By : KPT (FRGS 9003-00237)
Amount: RM 62, 000
Main Researcher: **Norshah Afizi Bin Shuaib**
Co-Reseachers: Dr Khairul Azwan Bin Ismail, Dr Muhammad Saifuldin Abdul Manan
Duration: June 2010 – June 2011
3. Title: Skill Development in Product Design Engineering.
Awarded by: National Special Grant: 9004-00035.
Amount: RM 30, 000
Main Researcher: Shayfull Zamree Bin Abd. Rahim.
Co-Reseachers: Mohd Nasir Mat Saad, Professor Dr. Kamaruddin Hussin, Mohd Mustafa Al Bakri Abdullah, Mohamed Faisal Bin Mohamed Nor, Mohd. Hazwan Hussin, Mohd. Fathullah Ghazli@Ghazali, Irfan Abd. Rahim, **Norshah Afizi Shuaib**.
Duration: April 2013 – April 2016.

Article Publications

1. Sharizal Ahmad Sobri, Robert Heinemann, David Whitehead and **Norshah Afizi Shuaib**, “Drilling Strategy for Thick Carbon Fiber Reinforced Polymer Composites (CFRP): A Preliminary Assessment”, J. Eng. Technol. Sci., Vol. 50, No. 1, pp 21-39, 2018.
2. **Norshah Afizi Shuaib** and Robert Heinemann, “The Effect of Acoustic Emission Sensor and Accelerometer Mounting Location on Signal Quality in Micro Drilling”, 3rd MACE PGR Conference, Manchester, 2017.
3. **N. A. Shuaib**, M. Fathullah, Z. Shayfull, S.M Nasir and M.F.M.A Hamzas, “Warpage Analysis between Straight and Conformal Cooling Channels on Thin Shallow Shell”, 2nd International Conference on Advanced Material Engineering & Technology 2013 (ICAMET 2013), Bandung, Indonesia, November 28-29, 2013.
4. **N.A Shuaib**, S.M. Nasir, M. Fathullah, Z. Shayfull, M.S. Abdul Manan, “The influence of different mold temperature on warpage in a thin shallow injection molding process,” International Review of Mechanical Engineering, Vol. 6, No. 1, 11-16, 2012.
5. **N.A Shuaib**, S.M. Nasir, M. Fathullah, Z. Shayfull, M.S. Bahari, “Optimization on parameter settings in determining warpage factors of a side-gated thin shallow part injection molding for PP, ABS & PC+ABS materials,” International Review of Mechanical Engineering, 2012, Vol. 6, No. 4, 865-870, 2012.

6. M. Ezral, **N.A. Shuaib**, Z. Shayfull, M. Fathullah, Z.M. Ripin, "Optimization of tile laying process parameters using taguchi's method," *International Review of Mechanical Engineering*, Vol. 5, No. 7, 1258-1265, 2011.
7. S.M Nasir, **N.A. Shuaib**, Z. Shayfull, M. Fathullah, Z. Nooraizedfiza, "Warpage optimization on ultra-thin plate in three plate mold for PP, ABS & ABS+PC materials by using Taguchi method," *International Review of Mechanical Engineering*, Vol. 6, No.3, 372-378, 2012.
8. S.M. Nasir, **N.A. Shuaib**, Z. Shayfull, M. Fathullah, R. Hamidon, "Warpage Analysis on Thin Plate by Taguchi Method and Analysis of Variance (ANOVA) for PC, PC/ABS and ABS Materials," *International Review of Mechanical Engineering*, Vol. 5, No. 6, 1125-1131, 2011.
9. M. Fathullah, Z. Shayfull, **N.A. Shuaib**, S.M. Nasir, M.S. Abdul Manan, "Investigation on Nylon PA66 side arms using Taguchi and ANOVA analysis in reducing cost of producing urinary catheters," *International Review of Mechanical Engineering*, Vol. 5, No. 7, 1278-1286, 2011.
10. M. Fathullah, Z. Shayfull, **N.A. Shuaib**, S.M. Nasir, M.S. Abdul Manan, "Optimal process conditions of warpage with thin-shallow features molded with pin-point gating system," *International Review of Mechanical Engineering*, Vol. 5, No. 7, 1295-1301, 2011.
11. M. Ezral, M. Fathullah, **N.A. Shuaib**, Z. Shayfull, Z.M. Ripin, "Application of IDEF3 process description capture to mechanize manual tile installation," *International Review of Mechanical Engineering*, Vol. 5, No. 7, 1287-1294, 2011.
12. S.M. Nasir, K.A. Ismail, Z. Shayfull, **N.A. Shuaib**, "Comparison Between Single and Multi Gates for Minimization of Warpage Using Taguchi Method in Injection Molding Process for ABS Material", 2nd International Conference on Advanced Material Engineering & Technology 2013 (ICAMET 2013), Bandung, Indonesia, 2013.
13. Nasir, S.M., Ismail, K.A., Shayfull, Z. and **Shuaib, N.A.**, "Strength of the weld line and warpage defects on the molded parts in injection molding process", *International Review of Mechanical Engineering* 7 (5) , pp. 977-990, 2013.
14. Z. Shayfull, M. Fathullah, S. Sharif, S.M. Nasir, **N.A. Shuaib**, "Warpage analysis on ultra-thin shell by using taguchi method and analysis of variance (ANOVA) for three-plate mold," *International Review of Mechanical Engineering*, Vol. 5, No. 6, 1116-1124, 2011.
15. Z. Shayfull, M. Fathullah, S.M. Nasir, **N.A. Shuaib**, M.S. Abdul Manan, "Warpage analyses on thin plate in three-plate mold by Taguchi method and analysis of variance (ANOVA) for PC, ABS and PC/ABS," *International Review of Mechanical Engineering*, Vol. 6, No. 1, 1-10, 2012.
16. M. Fathullah, Z. Shayfull, S. Sharif, **N.A. Shuaib**, S.M. Nasir, "A study on two plate and three plate mold of ultra thin plates in minimizing warpage issue," *International Review of Mechanical Engineering*, Vol. 5, No. 7, 1189-1195, 2011.
17. M. Ezral, Z. Shayfull, M. Fathullah, **N.A. Shuaib**, Z.M. Ripin, "An approach to mechanization and automation of manual construction activity," *International Review of Mechanical Engineering*, Vol. 5 No. 7, 1266-1271, 2011.
18. S.A. Adam, **N.A. Shuaib**, M.R.M. Hafiezal, S.N. Suhaili, "Study on Surface Roughness and Chip Formation During Milling Operation using Vegetable Based Oil as a Lubricant," *International Journal of Engineering & Technology*, Vol. 13, No. 1, 2013.
19. Z. Shayfull, M. Fathullah, **N.A. Shuaib**, S.M. Nasir, " Design and Development of Dried Chillies Seed Separating Machine", *International Journal of Basic & Applied Sciences IJBAS-IJENS* Vol 11 No 05, 2011
20. Z. Shayfull, **N.A. Shuaib**, M.F. Ghazali, S.M. Nasir, Z.Nooraizedfiza, "Optimizing Length of Weld Line Formation in Thin Plate by Taguchi Method and Analysis of Variance (ANOVA)," *International Journal of Engineering & Technology*, Vol. 11, No. 1, Februari 2011.

21. **N.A. Shuaib**, M.F. Ghazali, Z. Shayfull, M.Z.M. Zain, S.M. Nasir, "Warpage Factors Effectiveness of a Thin Shallow Injection-Molded Part using Taguchi Method," International Journal of Engineering & Technology, Vol. 11, No. 1, 2011.
22. M.F. Ghazali, Z. Shayfull, **N. A. Shuaib**, S.M. Nasir, M. Mat Salleh, "Injection Mould Analysis in Reducing Warpage of Nylon PA66 Side Arms Using Taguchi Method and ANOVA, International Journal of Basic & Applied Sciences, Vol. 11, No. 1, Februari 2011.
23. M. F. Ghazali, Z. Shayfull, M. D. Azaman and **N.A. Shuaib**, "Introduction of Nylon-66 on Side Arm in a Catheter Manufacturing Process," International Journals of Engineering & Technology, Vol. 10, No. 6, Desember 2010.
24. H. Azmi, **N. A. Shuaib**, M. F. Ghazali, Fire Alarm System, Portable Fire Extinguisher and Hose Reel System Maintenance for Safety Purpose and Requirements, National Symposium on Advancements in Ergonomics and Safety ERGOSYM, 2009
25. **N. A. Shuaib**, M.F. Ghazali, and C. D. M. Asyraf, Application of HIRARC in UniMAP's Laboratories, National Symposium on Advancements in Ergonomics and Safety ERGOSYM, 2009
26. **N.A. Shuaib**, N. Ismail, N.H. Shuaib, M.F. Ghazali, Determination of Automated Storage and Retrieval System Dwell Point, World Engineering Congress 2010, 2nd – 5th August 2010, Kuching, Sarawak, Malaysia Conference on Engineering and Technology Education.
27. **N.A. Shuaib**, M.S. Bahari, M.K. Fadzly, Amarul Talip, M.S. Salim, HIRARC Analysis and Development of Safe Flexible Manufacturing Cell in UniMAP, Asia Pacific Symposium in Ergonomics & Safety ERGOSYM, 2011.
28. M.S. Bahari, **N.A. Shuaib**, H. Azmi, Design of a Prototype of an Industrial Respirators by using Anthropometric Data, Asia Pacific Symposium in Ergonomics & Safety ERGOSYM, 2011

Book Publications

1. Shayfull Zamree Abd Rahim, Mohd Fathullah Ghazali@Ghazali, Mohd Nasir Mat Saad, Mohd Sabri Hussin and **Norshah Afizi Shuaib**, Inovasi Produk – Tips dan Panduan, UniMAP Press, 2013, ISBN: 978-967-5415-63-0.
2. Badrul Azmi Abdul Holed, Mohd Effendi Muhammad Suandi, Muhammad Farizuan Rosli and **Norshah Afizi Shuaib**, Sejarah dan Apresiasi Seni Lukis dan Seni Reka, UniMAP Press, 2014, ISBN 978-967-5415-82-1.
3. Asas Sistem Pneumatik dan Hidraulik, Mohd Khairul Fadzly Abu Bakar, Mohd Nasir Mat Saat, Shayfull Zamree Abd Rahim, Irfan Abd Rahim and **Norshah Afizi Shuaib**, UniMAP Press, ISBN 978-967-5415-80-7

Research Awards

1. Special Award from Korea Invention News for research titled "Gas Leakage Precaution System" at the 7th International Warsaw Invention Show, Warsaw, Poland, 2013.
2. Grand Award from Asian Invention Association for research titled "Dried Chili Seeds Separating Machine" at the Malaysia Technology Expo (MTE), Kuala Lumpur Malaysia, 2011.
3. Special Award from the organizer (Archimedes) for research titled "Roadside Wind and Pressure Energy Harvester" at the Archimedes, 17th Moscow International Salon of Inventions and Innovative Technologies, Moscow, Russia 2014.

Patent Filed

Patent Filing: A DE-SEEDING APPARATUS (Pintas ref: PT/3729/Unimap/11, UniMAP ref: Unimap/PPKPHI/HI/PDPF(02)(2011)-1)
 Patent Application Number :PI 2011700184

Main Applicant: Shayfull Zamree Abd. Rahim
Co-Applicant: 1. Mohd Fathullah Ghazli @ Ghazali
2. **Norshah Afizi Shuaib**
3. Mohd. Nasir Bin Mat Saad
4. Radhwan Hussin
5. Muhamad Farizuan Rosli.

Consultations

1. Company : Funfiek Technology Sdn. Bhd., KHTP Malaysia
Title : Skill Development in Product Design Engineering
Duration : 15 April 2013- 15 April 2016 (3 Years)
Leader : Shayfull Zamree Bin Abd Rahim
Project Manager : Mohd Nasir Mat Saad
Members : Professor Dr. Kamaruddin Hussin, Mohd Mustafa Al BAKri Abdullah, Mohd Faisol Bin Mohamed Nor, Mohd Hazwan Hussin, Mohd Fathullah Bin Ghazali@Ghazli, Irfan Bin Abd Rahim,
Norshah Afizi Bin Shuaib
2. Company : I-Zest Technology Sdn. Bhd., Prai, Malaysia
Title : Skill Development in Product Design Engineering
Duration : 15 April 2013- 15 April 2016 (3 years)
Leader : Shayfull Zamree Bin Abd Rahim
Project Manager : Mohd Nasir Mat Saad
Members : Professor Dr. Kamaruddin Hussin, Mohd Mustafa Al BAKri Abdullah, Mohd Faisol Bin Mohamed Nor, Mohd Hazwan Hussin, Mohd Fathullah Bin Ghazali@Ghazli, Irfan Bin Abd Rahim,
Norshah Afizi Bin Shuaib

Other Involvements

1. Program Chairperson, Bachelor of Engineering, Product Design Engineering, Universiti Malaysia Perlis, March 2011-February 2013.