

NORIAH BINTI YUSOFF



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BORN

9TH AUGUST 1965, KOTA BHARU, KELANTAN.

CAREER OBJECTIVE

To establish myself as prolific researcher and resourceful educator in the higher learning institution through long time commitment in the institution and multi-discipline working experience, both in government and private sectors. I believe that my technical, functional and communication skills will enable me advancing the career challenge ahead.

STRENGTHS

- Have had over 20 years of working, training, and teaching experience. Specialize in areas such as Operation Management, Industrial Engineering – Method Study and Work Measurement, World Class Manufacturing - Lean Manufacturing and Total Quality Management (TQM), Quality System Management, Robotics & Automation and Manufacturing Process Improvement.
 - Substantial working experience in manufacturing operation include:
 - Head of Quality Assurance Department (QA Senior Manager) at Carpets International Malaysia Manufacturing Sdn. Bhd., Jalan Kuchai Lama, Kuala Lumpur (8 years).
 - Head of Quality Assurance Department (QA Engineer) at EP Polymers (M) Sdn. Bhd., Jalan Lada Hitam, Seksyen 16, Shah Alam (4 years).
 - Industrial Engineer at multi-national computer manufacturing company; ACER Technologies Sdn. Bhd. Seberang Jaya, Penang (2 years).
 - Also have more than 6 years experience in academic fields that includes teaching undergraduate students in manufacturing engineering application's subjects such as Industrial/Operation Management and World Class Manufacturing; coordinating Students' Final Year Project I (FYP I) such as planning, scheduling and executing the FYP I activities; supervising Master Degree and Degree students as well as numerous appointment as second examiner and presentation's panel for master Degree students; an active member of the
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phase 03/2009 Excellence Fund ; and servicing MITRANS in providing training for Malaysian Airport Career Development Program – Consultation work between UiTM and Malaysian Airport Berhad (MAHB).

- Have had strong research background and able to work independently in the area of manufacturing process improvement in automotive industries through master's degree studies.
- Experienced as Research Assistant and work independently at the Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM), Shah Alam for IRDC research projects (Project Code: 10532) and under this grant the author's master's degree by researched was achieved.
- Appointed as a committee member in Strategic Planning Committee at the faculty level and contributing ideas according to the assigned taskforce.

COMPUTER SKILLS

- Microsoft Word, Excel & Power Point
- Microsoft Office Project Management.
- Delmia QUEST Software (Systems integration, process flow design & visualization solution)
- CAD/CAM: CATIA

EDUCATION

UNIVERSITI TEKNOLOGI MARA, MALAYSIA (UiTM)
PhD in Mechanical Engineering – by research (2019)

UNIVERSITI TEKNOLOGI MARA, MALAYSIA (UiTM)
MSc in Mechanical Engineering (2008)

UNIVERSITI TEKNOLOGI MALAYSIA, KUALA LUMPUR (UTM)
B.Eng in Mechanical Engineering – Majoring in Industrial Engineering (1989)

UNIVERSITI TEKNOLOGI MALAYSIA, KUALA LUMPUR (UTM)
Diploma in Mechanical Engineering (1986)

PROFESSIONAL MEMBERSHIP

Certified Professional Engineer with Practicing Certificate of The Board of Engineers Malaysia (BEM); Registration no: C116854
Corporate Member of The Institution of Engineers Malaysia (IEM); Membership number: 71674
Member International Association of Engineers (IAENG); Membership number: 103469

EXPERIENCE

FACULTY OF MECHANICAL ENGINEERING, UiTM SHAH ALAM

Lecturer

(October 2008 – Present)

- Lecturing for Degree students in the following subjects: MEM673/KJP636 (World Class)
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Manufacturing), MEM575/KJP585 (Industrial Management), MEM603 (OSHA-Occupational Safety and Health), MEM677 (Project Management), MEC600 (Engineering in Society), KJP626 (Robotics and Automation) and MEC431 (Engineering Drawing).

- As Coordinator for Master by Coursework program; Engineering Management (EM704); planning - establishing program calendar for all the important dates and activities in every semester; conduct classes on research methodology, report writing and presentation according to the program calendar; and organize & schedule the presentation event for students defending their Project (I) and (II).
- Actively involved in BRC Research Work, Masters and Degree Students Projects.
- As Coordinator for Final Year Project (I); planning - establishing program calendar for all the important dates and activities in every semester; conduct classes on research methodology, report writing and presentation according to the program calendar; and organize & schedule the presentation event for students defending their Final Year Project (I).
- Attending meetings and workshops at faculty level such as FKM's Academic Staff Meeting, Strategic Planning Workshop, Examination Question's Vetting Workshop, OBE Workshop and Research Workshop.

Part time/Full time Lecturer

(December 2005 to October 2008)

- Lecturing for Degree Students at Faculty of Mechanical Engineering, Universiti Teknologi MARA (UiTM), Shah Alam in the following subjects: KJP 226 (Workshop Practice); MEC 481(Materials Science); and MEC 424 & KJM 410 (Mechanical Engineering Laboratory).

Research Assistant At Faculty of Mechanical Engineering

(September 2004 to April 2005)

- Conducted the research work diligently and independently in the aspect of planning, executing, and reporting; for one of the IRDC Projects under Project Code of 10532.
- The title of the research project is "Development and Improvement of the Car Seat Polyurethane Injection Moulding Process". This project is case-based research, and the case study subject is an SMI's category. This project was successfully modeled the new improved car seat polyurethane injection moulding process by deploying an industrial robot and line automation via Delmia Quest Simulation Software (DQSS). Cost comparison between the existing and new improved method was done to justify the new investment cost.

**CARPETS INTERNATIONAL MALAYSIA MANUFACTURING SDN. BHD.,
JALAN KUCHAI LAMA, KUALA LUMPUR.**

***Head of Quality Assurance Department (QA Senior Manager),
(August 1994 to July 2002)***

Nature of business: Automotive Carpets and Commercial Carpets Manufacturing.

As the Head of Quality Assurance Department, I was responsible for all the Quality Assurance Department's activities and I report directly to the Managing Director. I was a member of the following committee / task force: Management/Steering Team, Management Representative (MR) for ISO 9001:2000, Budget Planning & Review Team, Production Planning Team and Research & Development Team.

Responsibilities & Achievements:

- Established and set up the Quality Assurance System for Carpets International Malaysia Manufacturing Sdn. Bhd. Obtained ISO 9001:2000 for the company.
- Managing all Quality Assurance functions by planning and coordinating the activities of subordinates to provide support services to the Manufacturing line. I had one QA Executive and one QA Supervisor who reported direct to me, and seven QA operators to support the operations.
- Provided weekly and monthly Quality Assurance report to the Managing Director.
- Ensured all finished products meet the established quality standards set by customers (MITSUBISHI/DAIHATSU STANDARD for automotive carpets and AUSTRALIAN /BRITISH STANDARD for commercial carpets) during manufacturing of the products, by establishing the Quality Assurance activities at Incoming, Inprocess and Outgoing steps of the products manufacturing.
- Responsible for all Research and Development activities pertaining to Quality Assurance such as, establishing Quality Control Process Document, Standard Operating Procedure, Product Verification and Confirmation e.g. identifying the testing requirement and specification. Also confirmation of all subcontract products by visiting the customer to verify the products against customer's specifications.
- Provided feedback to production floor on compliance to the quality standards and system.
- Handled customer complaints and proposed corrective actions accordingly (immediate and long-term countermeasures).
- Established in-house testing for commercial carpet. Testing conducted such as Appearance Retention Test, Carpet Resilient Test, Colour Fastness Test and Tuft Anchorage Test according to the British Standards.
- Responsible for controlling, scheduling and updating all the measuring equipment for calibration.

EP POLYMERS (M) SDN. BHD., JALAN LADA HITAM, SEKSYEN 16, SHAH ALAM.

***Head of Quality Assurance Department (QA Engineer),
(June 1991 to August 1994)***

Nature of business: Plastic Injection Molding and Electrical Products Manufacturing Company.

I had three years experience as the Head of Quality Assurance Engineer in this company and was one of the pioneer staff at that time. (Which is now public listed).

Job Description and Responsibilities:

- Established the Quality Assurance System for the company.
 - Managed all Quality Assurance functions including planning and coordinating the activities of subordinates to provide support services to the manufacturing / production floor.
 - Ensured all finished products met the established quality standards set by the customer during the development stage by establishing and maintaining an effective production
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and quality control system and standard reference documentation.

- Provided feedback to the production floor on the product and system compliance to the quality system's standards.
- Established and documented all the standard requirements of every new product developed, from development stage to the production floor and on to delivery to customer.
- Coordinated and headed the activities for the ISO 9002 program:
 - Writing procedures into standard format.
 - Documenting procedures.
 - Training of key personnel's
 - Internal auditing activities.

ACER TECHNOLOGIES SDN. BHD. SEBERANG JAYA, PULAU PINANG.

Industrial Engineer (February 1990 to May 1991)

Nature of business: Manufacturing of VGA colour monitor and keyboards.

I was a pioneer employee of Acer Malaysia; the only Bumiputra and female engineer.

Job Function & Responsibilities:

- Responsible for all the Industrial Engineering activities at Printed Circuit Board (PCB) Assembly Line; eg: CPU Board and CRT Board.
- Established manufacturing standards for the production line through the employment of JIT and work study concept and good manufacturing practice.
- Established standard time for all the production processes at the PCB Assembly Line.
- Designed and coordinated production line layout at PCB Assembly Line to ensure most efficient process sequence.
- Defined the process flow of production models and established, as well as applied line balancing technique to optimize production output and costs.
- Monitoring production line efficiency by collating and analysing production efficiency data, on daily and weekly basis.
- Established daily and weekly reports on the PCB Assembly Line performance based on the collated data.
- Kaizen activities; introduced and implemented improved methods concerning product quality and productivity as well as to achieve lower production cost.

LIST OF ACTIVITIES AND CONTRIBUTIONS TO UiTM AND THE NATIONS

- 1) Appointed as a Committee Member of the “Majlis Pilihanraya Perwakilan Pelajar” at the faculty level.
- 2) Appointed as a trainer in MITRANS project; providing training for Malaysian Airport Career Development Program (January, 2011).

RESEARCH

PhD ENGINEERING RESEARCH THESIS, UNIVERSITI TEKNOLOGI MARA (UiTM) (PhD. Thesis, UiTM: 2019)

Research Title: Analytical Evaluation, Fabrication and Characterization of Capacitive Interdigital Micro-Electro-Mechanical-System (MEMS) Breath Sensor

The research is about analytical evaluation, fabrication, and characterization of a MEMS breath sensor. A user friendly and micro size breath sensor is fabricated using an IDE MEMS platform to detect moisture in human exhaled breath. The multiwall carbon nanotube (MWCNT) structure was synthesized onto the IDE platform as its sensing element. Theoretical analysis of the IDE platform was done by employing a coplanar waveguide (CPW) transmission lines method. From here, an equivalent circuit model representing the IDE platform for the breath sensor was established. The mathematical expression of the equivalent circuit model has been formulated using the partial capacitance and conformal mapping techniques. The theoretical value was validated against the experimental value and less than 10% percentage of error was obtained. The size of the IDE platform is 2.94 mm x 2.74 mm and it comes in two designs; DP3 and DP5. Initially, the research work focused on the IDE platform design selection. Design of experiment (DOE) is used to investigate the effect of the temperature and humidity on the sensor design. In this exercise, the sensor sensitivity and response were tested and measured. The initial study reveals that the DP5 design is more suitable for the breath sensor application. The MWCNT structure was synthesized using plasma enhanced chemical vapor deposition (PECVD) method. The morphology of the MWCNT structure was investigated using the Field Emission Scanning Electron Microscopy (FESEM) and ImageJ software. The results revealed that the average diameter and thickness of the MWCNT structures are 20.20 ± 0.66 nm and 1073.95 ± 8.00 nm, respectively. The Raman Spectra analysis is used to characterize the MWCNT crystalline nature. Three typical sharp peaks for the MWCNT structure were observed at 1352 cm^{-1} (D band), 1574 cm^{-1} (G band) and 2707 cm^{-1} (2D band). The result shows that the MWCNT structure was successfully grown on the IDE platform. The breath sensor was characterized according to the sensor stability, selectivity, sensitivity, and response time. The sensor stability test was done using Climatic Chamber where the temperature and humidity in the chamber were varied to observe the sensor's behaviour. This experiment is to imitate the condition for the breath sensor at indoor deployment. The selectivity test was performed on the breath sensor to find out whether the sensor is only detecting the moisture in the human exhaled breath. In this experiment, the sensor was exposed to highly concentrated carbon dioxide condition (CO_2). The result shows that the sensor is not reacting to the CO_2 . A customized test jig was fabricated to test the sensor sensitivity and response time. The experimental data that was captured via the test jig was analysed using MATLAB to

determine the sensor sensitivity and response time. The overall result shows that the breath sensor is sensitive to the moisture presence and response less than 1.5 seconds for both rise time and fall time. These attributes are crucial since the normal human breathing pattern is between 1.5 to 2 seconds at each event and human exhaled breath contains moisture. The research findings also indicate that the sensor is selective and stable as well as functional for indoor condition.

**MASTER RESEARCH THESIS, UNIVERSITI TEKNOLOGI MARA
(MSc. Degree Thesis, UiTM), (2004 to 2008)**

***Research Title: Design and Simulation for An Automated Production Line for Manufacturing
Injected Polyurethane Car Seats.***

The research study was carried out at a local SMEs company of car seat polyurethane injection manufacturing in Klang Valley. The objectives of the research are to determine the process time of an existing car seat polyurethane injection process, develop and simulate a new improved method to attain more consistent product quality and consequently higher productivity and determine the cost effectiveness of the new improved method. There are two major phases involved in the researched work; (i) Analysis and development of an improved method using work study method and (ii) modelling and simulation of that improved method using Delmia QUEST® Simulation Software (DQSS). DQSS portrayed a comprehensive visualization and simulation environment for the new improved method and processes without interrupting the actual production line. The model validation was done by building the actual production line using the DQSS platform and the simulated results were then compared against the actual production output. From here the new improved method were then developed using the same platform. Simulation output results which were obtained from the new improved method were then analyzed and verified against the present method. The cost comparison between the new improved method and the existing method was exercised to justify the new capital investment cost and the cost effectiveness achievement through the layout improvement; line automation and industrial robotics application were studied as well.

**INSTITUTE OF RESEARCH, DEVELOPMENT AND COMMERCIALIZATION (IRDC)
PROJECT (2004-2005): As Research Assistant [Completed 2006]**

1. ***Development and Improvement of the Car Seat Polyurethane Injection Moulding Process. IRDC Grant approved: RM43,970.00 [Ref. No: 10532].*** The present methods and techniques of injecting the polyurethane (p/u) for car seat are still done manually. Therefore; cost is not minimized, inconsistent product quality, inconsistent production efficiency and productivity, difficulty in meeting customer's demands, market variance, reliable and on time delivery. A research study was carried out at the car seat p/u injection moulding plant. The objectives of the research study were to evaluate the existing methods and techniques of injecting and moulding the p/u for the production of car seat. A new process and technology for higher productivity were developed to attain consistent product quality through layout and line automation improvements as well as robotic applications. Delmia QUEST software is used for the simulation of the new improved process and technology and to determine the cost effectiveness of the overall project.

NATIONAL LEVEL ACTIVE RESEARCH FUNDING (MOSTI/FRGS & Others)

No	Research Project	Source	Total Funds	Begin Year	End Year
1	Co-Researcher: Growth of Nanostructured Zinc Oxide on 3D Porous Graphene Supercapacitor Electrode 600-IRMI/MyRA 5/3/LESTARI (024/2017)	LESTARI	RM 20000.00	2017	2019
2	Co-Researcher: Characterization of Multiwalled Carbon Nano-Tubes (MWCNT) Capacitance Behavior on Interdigital Electrode (IDE) Semiconductor Platform For Humidity Sensor 600-IRMI/MyRA 5/3/BESTARI (012/2017)	BESTARI	RM 35000.00	2017	2019
3	Co-Researcher: Transferring to Asia Green Recycle in Formulating and Testing Products of Recycled Tire: A Generation of Green Factory and Income Kod Projek: 438020130001	KTP	RM 138,000.00	2013	2016
4	Co-Researcher: Morphological Characterization of Nanostructure For An Improved Microelectro-Mechanical Systems (MEMS) Resonator Detection Sensitivity 600-RMI/ST/ERGS 5/3(18/2013)	ERGS	RM 100,000.00	2013	2016
5	Co-Researcher: Parametric Theory Investigation of Green Tower Using Solar Oven. 600-RMI/ST/FRGS 5/3Fst (38/2011)	FRGS	RM 132,000.00	2011	2014
6	Co-Researcher: A New Integrated Structure Model of Staggered-Coupled Micro Resonance With Simplified Pattern Recognition System Engine 600-RMI/ST/FRGS 5/3Fst (30/2011)	FRGS	RM 96,000.00	2011	2014
7	Co-Researcher New Micromachining Process Algorithm for 3-Dimensional Precision Microelectro-Mechanical Systems (MEMS) 600-RMI/ST/ERGS 5/3 (16/2011)	ERGS	RM 100,000.00	2011	2014

8	Principal Researcher: Just In Time (JIT) Production Implementation Through Lean Manufacturing Principles 600-RMI/DANA 5/3/RIF (322/2012)	RIF (Research Intensive Fund)	RM 32,000.00	2012	2014
9	Co-Researcher: Development of Lean Manufacturing System in Malaysia's Food and Beverages Industry 600-RMI/DANA 5/3/RIF (321/2012)	RIF (Research Intensive Fund)	RM 32,000.00	2012	2014
10	Co-Researcher: Characterization of potential solar thermal on the development of solar oven in the Malaysian climate RMI/ST/DANA 5/3/Dst (256/2009)	Excellence Fund	RM 5000	2009	2010

OTHER RELATED RESEARCH

BACHELOR ENGINEERING THESIS, UNIVERSITI TEKNOLOGI MALAYSIA(UTM) (B. Eng. Thesis, UTM: 1989)

Thesis Title: Financial Modelling at OYL Industries Sdn. Bhd

The project involved designing a financial model based on refrigerator's assembly line at a case study subject; OYL Industries Sdn Bhd using Lotus 123 Spreadsheet. This financial model was about developing a systematic cost structure that was involved in manufacturing refrigerators at the case study subject. The various costs involved in manufacturing the refrigerators were taken into consideration in developing the financial model with the objective of providing a systematic platform for the company to estimate the manufacturing cost under the what if scenario efficiently.

Individual Project: Line Balancing and Plant Layout Study at Electrical Power Engineering (EPE) Sdn Bhd, Kuala Lumpur (1989)

This project is part of the requirement in fulfilling the course program requirement. The project involved studying in detail and identifying problems in the production lines and applying line balance studies to overcome the identified problems. It is about applying the techniques and knowledge learned in the class into the actual manufacturing environment.

Group Project: A study on the Application of Factory and Machinery Act at Jabatan Kejuruteraan Jentera (JKJ), Kuala Lumpur (1987).

This project is about familiarizing and studying in detail the Industrial Act and relating real life situations to the Act.

CONSULTANCY

1. Appointed as a trainer in MITRANS's consultation work for Corporate Diploma Program with Malaysian Airport Holding Berhad (MAHB), January 2011.

STUDENT PROJECTS SUPERVISION

Masters

1. Lean Manufacturing at Plastic Plant UMW Advantech Sdn Bhd - Master by research
Name: Nurul Hayati Abdul Halim
2. Implementation of Lean by adopting Pull Production System to automotive component line in Manufacturing Industry – Master by research
Name: Ahmad Naufal bin Adnan.
3. A Study on Lean Manufacturing Implementation in the Malaysian Food and Beverages Industry- Master by research
Name: Nurul Syuhadah Khusaini.

Degree (Undergraduates)

No	Student	Topic	Year
1	MOHAMAD EZZAT AIDEED BIN JAHMALUDIN (201623534)	Equipment Critical Analysis at Lot A Production Plant.	2019
2	WAN ZARIF SYAZWAN BIN NASIR (2016238858)	Autonomous Maintenance Procedure and Implementation of Air conditioning Unit Series.	2019
3	NURUL SHYFIQA BINTI MOHD HASSIM (2016229646)	Process Improvement of Degreasing Operation Using Ultrasonic Machine.	2019
4	NUR MOHD SYAFIQ HAFIDZ BIN MOHD ARIFFIN (2016229368)	Safety and Health Identification, Risk Assessment of Air Conditioning Maintenance Activity at Maybank Office.	2019
5	MOHAMAD SHARIL ANUAR BIN ISMAIL (2014681794)	Layout Improvement at 3D Printer Assembly Line.	2019
6	MOHAMAD FIKRI BIN MOHD BAKRI (2016229554)	Risk Identification and Assessment of Ball Mill Operation Using HIRARC Guidelines.	2019
7	MUHAMMAD HAAKIM BAHARIN (2014241292)	Just In-Time (JIT) Maintenance System for Thermal Diffusion Process Line.	2018
8	MOHD BAKHTIAR SARKAWI (2012853696)	Design of Breath Sensor Response Performance Using Minitab	2015
9	MOHAMAD AZHAR BIN AZMI (2012846518)	New Product Development Of Led Street Light)	2015
10	MUHAMAD NAZRIN BIN ISMAIL (2012287198)	Design and Simulation of MEMs Moisture Sensor using COMSOL	2015
11	NOR MU'MINAH BT ABD GHAWI (2008251936)	Simulation Modelling of Plasma Treatment Effect on Carbon Nanotubes to the Humidity Sensor Performance	2014
12	MOHAMAD NAJMI SHARIFUDDIN BIN ROSLI (2010463332)	Fabrication of Zinc Oxide Nano-sensing Material for Capacitive Type MEMs Sensor	2014

13	KHAIRUL IKHWAN BIN ABDUL AZIZ (2010210684)	Synthesizing CNT Nano-sensing Material for Capacitive Type MEMs Sensor)	2014
14	MOHD RIZAL BIN JUHARI (2007244138)	Integrated Warehousing In Assisting Jit Implementation At Automotive Assy Line	2013
15	MUHAMMAD FAIRUZ BIN MOHD HASIM (2007118927)	Improvement Of Dry Waste Mgmt System In KLIA	2013
16	SITI NOOR NADIA HAFFIZA BINTI CHE HAREN (2009462566)	The Incoming Quality Control Management	2013
17	MUHAMAD SANUSI BIN OTHMAN (2008361819)	Analysis of Double Layered Solar Oven Using CFD Software-ANSYS	2012
18	MUHAMAD IDHLAN BIN ISMAIL (2008341751)	Analysis of Triple Layered Solar Oven Using CFD Software-ANSYS	2012
19	MOHD AZWAN BIN AZAHARI (2008251958)	The Effective Preventive Maintenance Towards Improving Auto Mold Machine Performance in Integrated Circuit Molding Process	2012
20	MUHAMMAD ALI BIN AHMAD SEBURI (2008400638)	Development of Poka Yoke Inspection Gauge for Power Steering Ball Stud	2012
21	MOHD SHAHRUDDIN BIN HUSSIN (2008251924)	Characterization Study of Medium and High Carbon Steel on Microstructure and Mechanical Properties (0.36wt%C and 0.63wt%C)	2012
22	MOHD SHAHRIR BIN ABD SAMAD (2007284344)	The Effectiveness of CMMS Implementation at Kalmar (Malaysia) Sdn. Bhd	2011
23	MUHAMMAD FIKRI BIN ABU KASSIM (2006689238)	Simulation of Tyre Building Line Using ProModel	2010
24	MOHAMAD RIDZUAN BIN ABDUL MAJID (2007126741)	Design and Autonomous Maintenance System at Masasinar Holding Sdn Bhd Using TPM Approach	2010
25	MOHD FITHRI BIN JAAFAR (2007121955)	Setup Time Reduction Using Systematic SMED's Technique at Masasinar Holding Sdn Bhd	2010
26	ABDUL BAZLI BIN ABDUL KARIM (2007126809)	Welding Process Improvement at Stanton Sdn Bhd Through Industrial Robot Application	2010
27	MUHAMMAD HAFIZ BIN HAMZAH (2006689762)	Islamic Manufacturing Practice: Current Development and Future Prospects	2010
28	MUHAMMAD FIKRI BIN HASHIM (2006690107)	Design and Structural Analysis of Prayer Chair	2010
29	MUHAMMAD SYAFIQ BIN SARANI (2006690400)	Prayer Chair: Easy Handling and Storage	2010
30	NORHISHAM BIN ABD. RAHMAN (2006133701)	Integration and PLC Programming of the State of The At Index Rotary Turntable into an FMS System	2009
31	MOHD MAZUAN BIN MALIKI (2006134887)	Green Manufacturing Practice within Automotive Industry in Malaysia	2009

PAPERS PUBLISHED

Articles Refereed Publication in Journals, Proceedings & Books

- (2012-06-27). [Nor Hayati Binti Saad \(dr\), Amirul Bin Abd. Rashid \(ir\), Noriah Binti Yusoff \(ir.\), Ahmad Faiz Bi Zubair, Farrahshaida Binti Mohd Salleh, Wan Fazlida Hanim Bt Abdullah \(dr\), Ahmed Bin Jaffa \(prof\)\(ir\)\(dr\)\(hj\), Abdul Rahim Mahamad Sahab "Assessing Level of MEMS Process Variation on Fabricated Micro Resonator Sensor Structure ", Leibniz Universitat Hannover, Universitat Paderborn, Bremer Institut for Production and logistics, Hannover, Germany](#)
- (2011-10-22). [Nurul Hayati Binti Abdul Halim, Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), "Material and Information Flow Chart \(MIFC\) Mapping for Lean Manufacturing Implementation in the D55D Assembly Line", Universiti Malaysia Perlis, Universiti Malaysia Perlis](#)
- (2010-12-02). [Nurul Hayati Binti Abdul Halim, Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), "Set-up Time Reduction Through Single Minute Exchange of Dies at Assembly Line", Faculty of Mechanical Engineering, UiTM Shah Alam, Shah Alam Convention Centre, Selangor, Malaysia](#)
- (2010-12-02). [Zainoor Hailmee Bin Solihin, Noriah Binti Yusoff \(ir.\), "The Influence of Malaysian Climate in Varying the Temperatures on the Solar Oven Performance", FKM, UiTM Shah Alam, Shah Alam Convention Centre \(SACC\), Selangor, Malaysia](#)
- (2009-06-24). [Zainoor Hailmee Bin Solihin, Noriah Binti Yusoff \(ir.\), "The Effect of Temperature on the Extraction Rate of Palm Pressed Fiber Residue Using Press Machine", FKM, UiTM Shah Alam, Concorde Hotel, Shah Alam](#)
- (2007-07-03). [Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), "Development and Improvement of the Car Seat Polyurethane Injection Moulding Process", UiTM, Sunway Lagoon Resort Hotel](#)
- (2006-11-20). [Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), "Automation and Robotization of the Car Seat Polyurethane Injection Molding Process", Ilmenau University Mexico City, Mexico City Mexico](#)
- (2006-07-26). [Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), "A Modelling and Simulation of Process Improvement in Polyurethane Injection Manufacturing Line", UTM, Universiti Teknologi Malaysia, Johor Bahru](#)
- (2005-12-05). [Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), "Development of Flexible Gripper for an Electronic Manufacturing Line, Centre for Artificial Intelligence & Robotics \(CAIRO\)", Faculty of Electrical Engineering, UTM, Mines Beach Resort & Spa, Kuala Lumpur](#)
- (2005-05-18). [Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), "Flexible Gripper for Pick and Place Robot in an Assembly Line", FKM, UiTM, Cititel Mid Valley, Kuala Lumpur](#)
- (2004-12-20). [Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Jamaluddin Bin Mahmud \(ir.\) \(dr\), Noriah Binti Yusoff \(ir.\), "Process Improvement of Polyurethane Injection Moulding for Car Seat Line", Universiti Malaysia Sabah, Sutera Harbour Resort, Kota Kinabalu, Sabah](#)

Journal Publication

- (2015-09-23). [Nurul Hayati Binti Abdul Halim, Noriah Binti Yusoff \(ir.\), Noor Azlina Binti Mohd Salleh \(dr.\), Ahmad Naufal Bin Adnan., "Standardized Work In Tps Production Line", Jurnal Teknologi, JURNAL TEKNOLOGI UTM, pageno : 73-78, vol : 76, issues : 6](#)
- (2015-05-31). [Noriah Binti Yusoff \(ir.\), Nor Hayati Binti Saad \(dr\), Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Amirul Bin Abd. Rashid \(ir.\), "Design Of Experiment Using Minitab Forscreening Breath Sensor Workability performance", Jurnal Teknologi, UTM Press, pageno : 1-5, vol : 76, issues : 9](#)
- (2015-05-31). [Amalina Binti Amir, Nor Hayati Binti Saad \(dr\), Amirul Bin Abd. Rashid \(ir\), Noriah Binti Yusoff \(ir.\), Nik Rosli Bin Abdullah \(dr\), Salmiah Binti Kasolang \(prof.dr\), Prof Ir Dr Hj Ahmed Jaffar, Azri Shahmi Ramli, "Thermal And Rheological Behavior Of Recycled Rubber/natural Rubber Blends In Recycle Tire Process", Jurnal Teknologi, UTM Press, pageno : 89-94, vol : 76, issues : 5](#)
- (2015-05-31). [Loo Huck Soo \(ir\) \(dr\), Nor Hayati Binti Saad \(dr\), Amirul Bin Abd. Rashid \(ir\), Noriah Binti Yusoff \(ir.\), Mohd Ridhwan Bin Mohammed Redza., "Ergonomic Improvements In The Handling Of Fibre Insulator Sheets Cutting", Jurnal Teknologi, UTM, pageno : 37-41, vol : 76, issues : 11](#)
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- (2014-12-01). [Amirul Bin Abd. Rashid \(ir\), Nor Hayati Binti Saad \(dr\), Noriah Binti Yusoff \(ir.\), Daniel Bien Chia Sheng1, Lee Kah Yaw, Lee Wai Yee, "Study On Hydrothermal Process Variables Correlation To Wo3nanostructure Through Design Of Experiments \(doe\) Approach", Applied Mechanics And Materials, Trans Tech Publications, pageno : 47-50, vol : 607, issues : 0](#)
- (2014-10-31). [Amirul Bin Abd. Rashid \(ir\), Nor Hayati Binti Saad \(dr\), Noriah Binti Yusoff \(ir.\), Daniel Bien Chia Sheng, Lee Wai Yee, "Zno Nanostructure Hydrothermal Synthesis: Morphologycontrol By O2 Plasma Conditioning", Arpn Journal Of Engineering And Applied Sciences, Asian Research Publishing Network, pageno : 1801-1804, vol : 9, issues : 10](#)
- (2014-05-22). [Nor Hayati Binti Saad \(dr\), Noriah Binti Yusoff \(ir.\), Mohsen Nabipoor, Suraya Sulaiman, Daniel Bien Chia Sheng, "Plasma Enhanced Chemical Vapor Deposition Time Effect On Multi-wallcarbon Nanotube Growth Using C2h2 And H2 As Precursors", Advanced Materials Research, Trans Tech Publications, Switzerland, pageno : 58-62, vol : 938, issues : 2014](#)
- (2013-09-15). [Nurul Hayati Binti Abdul Halim, Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), Ahmad Adnan Naufal, "The Methodology Of Lean Manufacturing Implementation", Applied Mechanics And Materials, 10.4028/www.scientific.net/AMM.393.3, pageno : 3-8, vol : 393, issues : 2013](#)
- (2013-09-03). [Nurul Hayati Binti Abdul Halim, Noriah Binti Yusoff \(ir.\), Ahmad Naufal Bin Adnan,, "Case Study: The Methodology Of Lean Manufacturing Implementation", Applied Mechanics And Materials, Scientific.net, pageno : 3-8, vol : 393, issues : 0](#)
- (2013-09-03). [Nor Hayati Binti Saad \(dr\), Amirul Bin Abd. Rashid \(ir\), Noriah Binti Yusoff \(ir.\), Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Abdul Rahim M Sahab, Nassya Mohd Said, "Effect Of Double Sided Process Parameters In Lapping Silicon Wafer", Applied Mechanics & Material, Trans Tech Publications, pageno : 259-265, vol : 0, issues : 393](#)
- (2013-09-03). [Zainoor Hailmee Bin Solihin, Wirachman Wisnoe \(dr\), Noriah Binti Yusoff \(ir.\), Wan Sulaiman Bin Wan Mohamad,, "Theoretical And Experimental Analysis Of Double Layer Quintuple Solar Oven", Applied Mechanics And Materials, Trans Tech Publications, pageno : 759-766, vol : 393, issues : 2013](#)
- (2013-09-03). [Ahmad Naufal Bin Adnan, Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), Nurul Hayati Binti Abdul Halim,, "Implementation Of Continuous Flow System In Manufacturing Operation", Applied Mechanics And Materials, Trans Tech Publications, Switzerland, pageno : 9-14, vol : 393, issues : 0](#)
- (2013-04-10). [Ahmad Naufal Bin Adnan, Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\), Nurul Hayati Binti Abdul Halim,, "The Effect Of Optimum Number Of Kanbans In Just In Time Productionsystem To Manufacturing Performance.", Applied Mechanics And Materials, Trans Tech Publications, Switzerland, pageno : 645-649, vol : 315, issues : 0](#)
- (2012-11-28). [Nurul Hayati Binti Abdul Halim, Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\),, "Journal Of Mechanical Engineering", Effective Data Collection And Analysis For Efficient Implementation Of Standardized Work \(sw\), UiTM Press, pageno : 45-78, vol : 9, issues : 1](#)
- (2012-10-10). [Noriah Binti Yusoff \(ir.\), Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Nurul Hayati Binti Abdul Halim,, "Development Of Kanban System At Local Manufacturing Company In Malaysia ? Case Study", Procedia Engineering, Science Direct: Elsevier, pageno : 1721-1726, vol : 41, issues : 2012](#)
- (2012-10-10). [Nurul Hayati Binti Abdul Halim, Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\),, "Gravity Flow Rack?s Material Handling System For Just-in-time \(jit\) Production", Procedia Engineering, Science Direct: Elsevier, pageno : 1717-1720, vol : 41, issues : 2012](#)
- (2012-10-10). [Norliana Binti Mohd Abbas, Noriah Binti Yusoff \(ir.\),, "Electrical Discharge Machining \(edm\): Practices In Malaysian Industries And Possible Change Towards Green Manufacturing", Procedia Engineering, Science Direct: Elsevier, pageno : 1684-1688, vol : 41, issues : 2012](#)
- (2012-08-02). [Noriah Binti Yusoff \(ir.\), Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Norliana Binti Mohd Abbas, Nor Hayati Binti Saad \(dr\),, "Work Measurement For Process Improvement In The Car Seat Polyurethane Injection Manufacturing Line", Procedia Engineering, Elsevier Ltd, pageno : 1800 ? 1805, vol : 41, issues :](#)
- (2012-08-02). [Nor Hayati Binti Saad \(dr\), Noriah Binti Yusoff \(ir.\), Amirul Bin Abd. Rashid \(ir\), Abdul Rahim Mahamad Sahab, Michael C.I. Ward, "Modeling And Performance Evaluation Of Multiple Mass Resonator Sensors For Electronic Nose Application", Procedia Engineering, Elsevier Ltd, pageno : 1539 ? 1547, vol : 41, issues :](#)
- (2009-12-01). [Noriah Binti Yusoff \(ir.\), Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\),, "Development Of Flexible Automation For The Car Seat Polyurethane Injection Molding Line", Journal Of Mechanical Engineering, upena, pageno : 57-72, vol : 6, issues : 2](#)
- (2008-10-01). [Ahmed Bin Jaffar \(prof\)\(ir\)\(dr\)\(hj\), Noriah Binti Yusoff \(ir.\),, "Pick And Place Robot Gripper For Relay Assembly Line", Journal Of Mechanical Engineering, FKM, pageno : 27-43, vol : 5, issues :](#)
-

GLORIFICATION AND ACADEMIC AWARDS

1. *Bronze Medal : A State of the Art Single Dial-Type Prototype Model for Polyurethane Injection Process*, 6th IID (Inventions, Innovation, Design) '09, Research Management Institute (RMI), UiTM, 13-15 January 2009, Dewan Sri Budiman & Annexe UiTM.

REFERENCES:

I shall be happy to provide references should it be required.
