



NUR NAJMIYAH JAAFAR

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Faculty of Manufacturing Engineering,
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Academic Qualification

Master of Science in Manufacturing System Engineering (2009)

University Putra Malaysia,

- **Thesis:** Development of Computer Aided Radiographic Interpretation Software System (CARIS) for Oil and Gas Sector in Pipe Wall Thickness Measurement Identification.
- **Course concentration:** Automation, Robotics and CAM, Manufacturing system design, Maintenance management system, manufacturing operation management.

Bachelor of Engineering in Manufacturing Engineering (2004)

University of Wolverhampton, United Kingdom

Research Interests

My research interests include, but are not limited to the following areas: Lean New Product Development, Engineering education, ergonomics in workplace, automation in production line and industrial system.

Research Project

Developing Quantitative Performance Measurement Audit Tool of Lean Manufacturing Performance using Critical Success Failure Technique. (Leader- RM30, 100) University Research Grant :RDU130351 (2013-2015)

An Investigation Into Proactive Ergonomics Measures Barriers at Early Production Development Phases in Malaysian Automotive Industries. (Member – RM27, 300) University Research Grant :RDU130352 (2013-2015)

An Improved Decision Support Tool for Dynamics Job Shop Scheduling. (Member- RM10, 040) University Research Grant :RDU140362 (2014-2016)

Design and Development of Single Minute Exchange Die (SMED) For Small Press Machine (**Bronze Medal** in Creative & innovative Technology Exhibition 2013)

Teaching / Working Experience

2012 – Present –LECTURER –University Malaysia Pahang

Academic

- Delivering lectures to the Bachelor students and providing the study material (slides and modules) to the students for
 1. **Lean Production System** (awarded teaching certificate of Excellence *score 85.94 , 85.57)
 2. **Production Engineering** (awarded teaching certificate of Excellence *score 92.36 , 88.40)

- Assigning the project work to the students and helping them to clarify the doubts regarding to the assignments

Administrative

- Acting as a coordinator of Alumni and Undergraduate Development which organize alumni activities and professional certification courses
- Involved in Curriculum Development for Master of Industrial Engineering

2005 – 2012 - LECTURER – TATI University College

Faculty of Electrical and Automation Engineering Technology

Academic

- Delivering lectures to the Bachelor, Diploma & Certification students and providing the study material (slides and modules) to the students for robotics and automation subject as well as mechanical and manufacturing subjects.
- Conducting laboratory sessions for industrial robotics course to all level of students including short courses in industrial robotics automation.

Administrative

- Acting as a coordinator of Robotic Excellence Centre which responsible on all activities involved in the centre including running short courses, maintenance, visiting etc.
- As Project Leader in FRGS till 2013 (FASA 1/2010) of Investigation of Process Parameter and Gain relation for Artificial Life Intelligent Industrial robot Contour Tracking Application.
- Involved in Curriculum Development for Master of Mechatronics and revised for Diploma Computer Integrated System curriculum.
- Involved in MQA preparation for bachelor mechatronics engineering technology, bachelor manufacturing engineering technology and diploma in automation (computer integrated system).
- Arranging and organizing programs and activities for Convocation Fiesta, Conference (RAS and ICORAS) and seminar.

Research Publications (Selected)

Fazilah, Abdul Aziz and **Nur Najmiyah, Jaafar** and Suraya, Sulaiman (2014) Critical Success Factors of New Product Development and Impact on Performance of Malaysian Automotive Industry. *Advanced Materials Research*, 903 . pp. 431-437. ISSN 1022-6680 (print), 1662-8985 (online)

Sulaiman, SURAYA; Sulaiman, SHAMSUDDIN; **Jaafar, NUR NAJMIYAH**; Yusoff, NOR IMRAH (2014) Studies on Tensile Properties of Titanium Carbide (TiC) Particulates Composites. *Advanced Materials Research*;2014, Issue 903, p151

Munira, Mohd Ali and **Nur Najmiyah, Jaafar** and Fazilah, Abdul Aziz and Nooraizedfiza, Zainon (2013) Review on Non Uniform Rational B-Spline (NURBS) Concept and Optimization. In: *International Manufacturing Engineering Conference (IMEC 2013)*