

NAME: Dr Adnan Hj. Bakri
POSITION: Senior Lecturer
DEPARTMENT/SECTION: Facilities Maintenance Engineering
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SECOND EMAIL: adnan.hjbakri@gmail.com
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FAX NO.:
GENDER: Male
NATIONALITY: Malaysian
DATE OF BIRTH: August 1970
PLACE OF BIRTH: Kota Bahru, Kelantan Darul Naim
MATERIAL STATUS: Married
WEBSITE: Nil
ADDRESS:
RESEARCH GATE:
LINKEDIN:
GOOGLE SCHOLAR:

EDUCATION / ACADEMIC QUALIFICATION:

Qualification : **Doctor of Philosophy In Mechanical Engineering**
Field of Study : Mechanical & Manufacturing Engineering
Institute/University : Universiti Teknologi Malaysia (UTM),
Completion Date : March,2015
Thesis Title : Total Productive Maintenance Framework for
Automotive Companies in Malaysia

Qualification : **Master of Engineering (Manufacturing System)**
Field of Study : Mechanical & Manufacturing Engineering
Institute/University : Universiti Kebangsaan Malaysia (UKM),
Completion Date : Sept,2006

Qualification : **Bachelor of Engineering with honours**
Field of Study : Mechanical Engineering
Institute/University : Universiti Teknologi MARA (UiTM)
Completion Date : July,1997

EMPLOYMENT (WORKING EXPERIENCE):

Company Name : **ShinEtsu (M) Sdn. Bhd**
Position Title : **Senior Engineer of Technical Department**
Specialization : Manufacturing/Production Operation
Industry : Manufacturing / Production
Duration : August 1997 – June 2008

Company Name : **NEC Semiconductors (M) Sdn Bhd**
Position Title : **Technical Officer of Maintenance Department**

Specialization : Manufacturing/Maintenance Operations
 Industry : Manufacturing / Production
 Duration : Jan 1993 – May 1995

EXPERTISE (RESEARCH AREA):

1. Integration of Total Productive Maintenance (TPM) with other quality improvement initiatives (*such as: Lean manufacturing, Six Sigma, etc.*) towards enhancing the productivity and quality of manufacturing industry.
2. Development of framework to improve the Facilities Maintenance and Management (FM) of government’s building and properties (*such as: mosques, learning institutions, offices, and etc.*).
3. Development of customized, hybrid and adaptable maintenance management techniques for manufacturing industry.

RESEARCH PROJECTS/GRANTS:

| No | Name of Project | Sponsor / Funding/ Organization | Project Period |
|----|---|--|------------------------|
| 1 | State of Implementation of Systematic Maintenance Management : A Survey Study in Malaysian Small and Medium Sized Enterprise (SMEs) | Short Term Research Grant (STRG) under UniKL | Jan 2016 – In progress |

SUPERVISION:

Supervision for MASTER candidate – Role: Main supervisor

1. **Muhammad Lutfi Zahin Bin Ab Latif.**
 Master in Manufacturing, UniKL-IPROM.
 Co-Supervisor: Dr. Norhairin Mohd Saad.
 Research Scope: *Development of Framework for Systematic Maintenance Management for Malaysian SMEs.*
 Period of supervision: *Sept 2016 – present.*

2. **Muhammad Ariff Bin Mahzan@Manan.**
 Master in Manufacturing, UniKI-IPROM.
 Co-Supervisor: AP Dr.Mohd. Zaid Abu Yazid.
 Research Scope: *Critical Success Factors for Adoption of Technopreneurship Elements for Malaysian SMEs.*
 Period of supervision: *Sept 2016 – present.*

Supervision for PhD candidate – Role: Co- supervisor

1. **Zulhaimi Bin Mohamad.**

PhD in Manufacturing, UniKL-IPROM.

Main Supervisor: AP Dr. Darulihzan Abd Hamid

Research Scope: *Development of Framework for Confined Space Management for Oil and Gas Industry.*

Period of supervision: Jan 2017 – present.

Supervision for Final Year Project for Bachelor Degree – Role: Main supervisor

1. Nasir, M.N.A.S., **Bakri, A.H.**, (2016), "Integration of CBM and NDT as Maintenance Tool : A Case Study in PETRONAS Chemical, Kerteh, Terengganu ", Final year project report for Bachelor of Engineering Technology in Facilities Maintenance Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
2. Najihah, A., **Bakri, A.H.**, (2016), "Feasibility Study of Autonomous Maintenance in Laboratories and Workshops of Higher Learning Institution ", Final year project report for Bachelor of Engineering Technology in Facilities Maintenance Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
3. Wahab.A. S., **Bakri, A.H.**, (2015), "A Study on the Effectiveness of Total Productive Maintenance Implementation : A Case Study in Main Automotive Company ", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
4. Mahzan.A. M., **Bakri, A.H.**, (2015), "A Study of Quality Tools Deployment in Oil and Gas Industry ", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
5. Deres.A., **Bakri, A.H.**, (2015), "A Case Study on Awareness of Quality Maintenance in Selected Automotive Companies ", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
6. Alias.M. F., **Bakri, A.H.**, (2015), "Study on the Awareness of Maintenance Role to Improve Quality : A Case Study in SME – Frozen

Food Manufacturing ", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).

7. Omar, A., **Bakri, A.H.**, (2015), "The Impact of 5S Implementation : A Case Study in Service Sector ", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
8. Ismail, N. M., **Bakri, A.H.**, (2015), "A Study on Safety Awareness in Workshop and Laboratory : A Case Study in Vocational College, Johor Bahru", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
9. Ithnin, K., **Bakri, A.H.**, (2015), "A Study on Maintenance Role to Improve Quality: A Case Study in Palm Oil Industry – FELDA Bukit Besar, Kulai, Johor", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
10. Julgafli, S. H., **Bakri, A.H.**, (2015), "A Study on the Utilization of Quality Tools: A Case Study in Freight Forwarding Industry, Pasir Gudang, Johor", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
11. Mering, M., **Bakri, A.H.**, (2011), "Developing a reliable Quality Assurance procedure for plant shutdown : A case study in PETRONAS Vinyl Chloride, Kemaman, Terengganu ", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
12. Saat, Z., **Bakri, A.H.**, (2010), "Stage of TPM Implementation in Iskandar Malaysia : A survey study by UniKL-MITEC", Final year project report for Bachelor of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).
13. Basir, M.S. H., Ghazali, M.S., Amiruddin, M.Z., **Bakri, A.H.**, (2010), "A comprehensive literature review on TPM", Final year project report for Diploma of Engineering Technology in Quality Engineering, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology (UniKI-MITEC).

LANGUAGES: English / Bahasa Malaysia

TEACHING AND LEARNING:

| Semester/ Year | Course Titles & Codes |
|---|--|
| Sept 2015 /Jan 2015/Sept 2014 - present | JFB10103 –Introduction to Facilities Maintenance Engineering JQD31603- Introduction to Quality, Reliability & Maintenance JFB30103- Maintenance Planning & Control JFB20803- Pump & Compressors System JFB30203- Reliability Centred Maintenance |
| Jan 2014 | JFB10103 –Introduction to Facilities Maintenance Engineering JGB30503- Project Management |
| Jan 2013 /Jul 2012/ Jul 2011 | JQB30803- Quality Reliability & Maintenance |
| Jan 2011 /Jul 2010 | JQB10303- Manufacturing processes JQD10302- Principles of Manufacturing Processes JQB20403- Quality System & Standards |
| Jan 2010 | JQB20302- Materials Science JQB10303- Manufacturing processes JQB30803- Quality Reliability & Maintenance |
| Jul 2009 | JGB10503- Engineering Science JQB20302- Materials Science JQD20102- Basic Materials Science |
| Jan 2009 | JGB10503- Engineering Science JQB10303- Manufacturing processes |
| July 2008 | JGB10503- Engineering Science JGD10302- Fundamentals of Engineering Science WQD10102-Technical Mathematics JQB10303- Manufacturing processes |

SELECTED PUBLICATIONS:

1. **Bakri, A.H**, Badrun, M. I (2016). Issues of Facilities Management of Mosque: Preliminary Study in Bandar Seri Alam, Johor. Conference proceedings: International Research Conference and Innovation Exhibition (IRCIE2016).
2. Kassim, R., Hamid, N.A., **Bakri, A.H** (2016). A Framework of Software As a Service (SAAS) Implementation in Higher Education System.

Conference proceedings: International Research Conference and Innovation Exhibition (IRCIE2016).

3. **Bakri, A. H.**, Alias, A.F., Kassim, R. (2016). Maintenance Management Practice in Malaysian SMEs. Conference proceedings: International Research Conference and Innovation Exhibition (IRCIE2016).
4. **Bakri, A. H.**, Rahim, A. R. A., Yusof, N. M., Tohid. M. M. Z., Razali. M. W. K., Ismail, S.A. (2016). Total Productive Maintenance: Issues and Direction for Future Research. Malaysian Journal of Industrial Technology (MJIT). Vol.1, No.1, pp 6-12. ISSN: 2462-2540.
5. **Bakri, A.** (2015). Total Productive Maintenance Framework for Automotive Companies in Malaysia, Ph.D. Thesis, Faculty of Mechanical Engineering, University Teknologi Malaysia.
6. **Bakri, A.H.** (2015), "Development of Research Framework to Assess Total Productive Maintenance in Malaysian Automotive Companies ".Conference proceedings: Malaysian Research Conference and Innovation Exhibition (MRCIE 2015).
7. **Bakri, A. H.**, Rahim, A. R. A., Yusof, N. M. (2014). Maintenance Management: rationale of TPM as the research focus. Applied Mechanics and Materials Journal. Vol.670-671, pp 1575-1582. Scopus indexed journal / Publisher: Trans Tech publication.
8. **Bakri, A. H.**, Rahim, A. R. A., Yusof, N. M., Tohid. M. M. Z., Razali. M. W. K., Ismail, S.A.. (2014). A review on the Total Productive Maintenance (TPM) Conceptual Framework. Applied mechanics and Materials Journal. Vol.660, pp 1043-1051. Scopus indexed journal / Publisher: Trans Tech publication.
9. **Bakri, A. H.**, Rahim, A. R. A., Yusof, N. M., Tohid, M. M. Z., Razali, M. W. K., Ismail, S.A. (2014). Issues in Total Productive Maintenance (TPM) Implementation: Justification of Employing Case Study Methodology Applied Mechanics and Materials Journal. Vol.660, pp 998-994. Scopus indexed journal / Publisher: Trans Tech publication.
10. Adnan, N., Daud, M. F., **Bakri, A. H.** (2014). Feasibility study to determine the practicality of implementing CIDB Green Card in higher learning institution: A preliminary case study. Conference proceedings: MITEC Research Colloquium on Engineering and Science Advancement in Malaysia (MRC2014). Publisher: UniKL-MITEC, Johor, Malaysia.
11. **Bakri, A .H**, Tohid, M. M. Z., Razali, M. W. K., Ismail. S.A. (2013). Total Productive Maintenance: Issues and Direction for Future Research. Conference proceedings: UniKL-MITEC Research Colloquium (MRC 2013). Publisher: UniKL-MITEC, Johor, Malaysia.
12. **Bakri, A.H.**, Rahim, A.R.A., Yusof, N.M., (2013), "TPM: Competing or complementary to other initiatives? ", Applied Mechanics and Materials

Journal, Vol. 315, pp 472-476. Scopus indexed journal / Publisher: Trans Tech publication.

13. **Bakri, A.H.**, Rahim, A.R.A., Yusof, N.M., Ahmad, R., (2012), "Boosting Lean via TPM ", Journal of Procedia - Social and Behavioral Sciences, Vol. 65, pp 485-491. Scopus indexed journal / Publisher: Elsevier
14. **Bakri, A. H.**, Rahim, A. R. A., Yusof, N. M. (2012). Towards successful of TPM implementation: How well the management commitment being assessed?. Conference proceedings: International Conference on Management, Economics and finance (ICMEF2012).

AWARDS AND RECOGNITIONS:

1. **Reviewer**, International Research Conference and Innovation Exhibition (IRCIE2016) – PERSADA Convention Centre, Johor Bahru, Malaysia , 18-20th October, 2016.
2. **Reviewer**, International Conference on Sustainable Engineering & Technology (InConSET 2016) – Holiday Inn, Melaka, Malaysia , 29th September, 2016.
3. **Reviewer**, for: Benchmarking: an International Journal. Editor: Prof. Angappa Gunasekaran. Year : 2015-2016.
4. **Reviewer**, Malaysian Research Conference and Innovation Exhibition (MRCIE 2015) – Universiti Kuala Lumpur –MITEC, Johor Bahru, Malaysia , 2-3rd December 2015.
5. **Reviewer**, 3rd Asia-Pasific Conference on Engineering and Technopreurship (ACET 2012) – PWTC Kuala Lumpur, Malaysia , 23-24th October 2012.

PROFESSIONAL SERVICES AND PROFESSIONAL MEMBERSHIP:

1. **Registered Technologist** with Malaysian Society for Engineering and Technology (mSET), membership no: 001124. Period: Year 2010 – present.
2. **Registered Engineer** with Board of Engineers (BEM), registration no: 94197A. Period: Year 2014- present.
3. **Registered Graduate Engineer** with Institution of Engineers (IEM), registration no: 78071.
4. **Certified Trainer** by Malaysian Institute of Management, certificate no : TTT/ 4940. Period: Year 2011-present
5. **Industrial Panel** for Board of Study (BOS) for Master of Science in Maintenance Engineering , Universiti Teknologi Malaysia (UTM) Razak School of Engineering and Technology, Kuala Lumpur. Period: Year 2013.
6. **Mejar Bersekutu**, Jabatan Pertahanan Awam, Malaysia. Period : Year 2012- 2014.

7. **Task Force Committee** for Majlis Amanah Rakyat (MARA), Strategic Road Map BPT * 2011-2015. *BPT –Bahagian Pengajian Tinggi MARA . Period: Year 2011.
8. Awarded for "**Anugerah Jasa Bakti**" by UniKL-MITEC for year 2011.
9. **Member** of Parent & Teacher Association (PIBG) - SK Taman Rinting 1, Masai, Johor. Period: Year 2010 – present.
10. **Member** of Parent & Teacher Association (PIBG) – SM Agama Kerajan Johor (SMAKJ), Kluang, Johor. Period: Year 2015 – present.

CONSULTANCE AND COMERCIALIZATION:

| No | Name of Project | Principal Researcher/ Co- Researcher | Sponsor / Funding/ Organization | Project Period |
|----|---|---|--|----------------------|
| 1 | Application of Lean Six Sigma in automotive industry. Project title: Cycle Time Improvement at Body Shop for Suzuki Swift. | Co-researcher with : INTRA student – Ashah Nabilah | UniKL-MITEC & DRB-HICOM, Pekan , Pahang. Supported by QC | Jan 2010 – July 2010 |
| 2 | Occupational, Safety and Health and Maintenance Module for Industrial Skills Enhancement Program (INSEP) | Co-operated with TSM Consultancy Sdn. Bhd. | Johor Skills Development Centre (PUSPATRI) | Jan 2015 – Sept 2015 |