

NAME:	MOHD ZUL-WAQAR BIN MOHD TOHID	
POSITION:	HEAD OF SECTION / LECTURER	
DEPARTMENT/SECTION:	FACILITIES MAINTENANCE ENGINEERING (FaME)	
OFFICIAL EMAIL:	mzulwaqar@unikl.edu.my	
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GENDER:	Male	
NATIONALITY:	Malaysian	
DATE OF BIRTH:		
PLACE OF BIRTH:	Petaling Jaya, Selangor	
MATERIAL STATUS:	Married	
WEBSITE:		
ADDRESS:		
RESEARCH GATE:	https://www.researchgate.net/profile/Mohd_Zul_Waqar_Mohd_Tohid	
LINKEDIN:		
GOOGLE SCHOLAR:	https://scholar.google.com/citations?user=sEbLHcwAAAAJ&hl=en&oi=ao	
EDUCATION / ACADEMIC QUALIFICATION:	MSc in Electrical Technology for Sustainable and Renewable Energy Systems, University of Nottingham , United Kingdom	
	Bachelor of Engineering (Electrical), Universiti Teknologi Malaysia, Malaysia	
EMPLOYMENT (WORKING EXPERIENCE):	Facilities Maintenance Engineering, UniKL MITEC : Head of Section	July 2013- Current
	Facilities Maintenance Engineering, UniKL MITEC : Program Coordinator	April 2013 - July 2013
	Facilities Maintenance Engineering, UniKL MITEC : Lecturer	Jan 2013 - Current
	Faculty of Chemical Engineering, UTM : Research Assistant	March 2012 - Dec 2012
	UK Integral Ltd: Building Services	Nov 2010 - Jan 2012
	UK Integral Ltd: Janitor	Oct 2007- Sept 2009
	YPJ Oil Palm Estate Sdn Bhd: Assistant Manager/Mill Engineer	Sept 2004 – Sept 2007
	Maju Integrated Consultant: M&E Training Engineer	March – June 2004

EXPERTISE (RESEARCH AREA):	Renewable Energy, Optimization, Lean Energy, Energy Management System, Maintenance Engineering	
RESEARCH PROJECTS/GRANTS:	a) Fundamental Research Grant Scheme (FRGS)	
	Role: Project Leader Title : Fundamental Study of Novel Energy Harvesting Method Using Dynamic Wind Generator Inside Ducting FRGS/1/2016/TK10/UNIKL/03/1 Approved Budget: RM 72,600 Project Duration : 01/05/2016 - 30/04/2018	
	b) Fundamental Research Grant Scheme (FRGS)	
	Role: Research Member Title : Modelling of Hidden Energy Transfer from the Recitation of Ruqyah of Al-Quran towards the changes of Physiological Signals Spectrum of Phasmophobia Disorder Patient FRGS/1/2014/TK03/UNIKL/02/2 Approved Budget: RM 135,800 Project Duration : 01/08/2014 - 31/07/2016	
	c) Short Term Research Grant (STRG) UniKL	
	Role: Research Member Title: Voice of Customer: Development of Research Instrument towards Service Excellence in local Authorities Approved Budget: RM 19,000 Project Duration: 2 years (starting from November 2014)	
SUPERVISION:	Final Year Project : Bachelor Level	
	TO STUDY THE MOTOR PERFORMANCE USING DYNAMIC ANALYSIS - By Aminul Nazrin Bin Azmi	BET in Facilities Maintenance Engineering 2016
	IMPLEMENTATION OF CONDITION BASED MONITORING FOR ELECTRICAL MOTOR USING THERMAL ANALYSIS - By Muhammad Akmal Bin Anuar	BET in Facilities Maintenance Engineering 2016

	ANALYSIS ON STAND ALONE SYSTEM FOR MULTI RESOURCE OF POWER GENERATION - By Syed Shahrul Nizam Bin Syed Ahmad	BET in Facilities Maintenance Engineering 2016
	A CASE STUDY TO FORMULATE THE NEW SERVICE APPROACH IN IMPLEMENTING TRAFFIC REPORT PROCESS AT IBU PEJABAT POLIS DAERAH SERI ALAM. By Tuan Muhammad Khairul Azizi Bin Tuan Kadir	BET in Quality Engineering 2016
	PIEZOELECTRIC TECHNOLOGY: THE DEVELOPMENT OF PIEZOTECHNOLOGY DETECTOR AT STAIRCASE FOR EMERGENCY ROUTE PURPOSE. By Muhammad Firdaus Bin Zulkipeli	BET in Quality Engineering 2016
	AN APPROACH OF FACILITY MANAGEMENT AT UNIKL MITEC MAIN BUILDING BY USING COMPUTERIZE MAINTENANCE MANAGEMENT (CMMS) By Aliff Afifi Bin Abdillah	BET in Quality Engineering 2014
	IMPLEMENTING OF COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEM AT UNIKL MITEC (HOSTEL) By Khairul Akmal Bin Kamarun	BET in Quality Engineering 2014
	AN IMPROVEMENT OF AUDIT ELEMENT ON PUBLIC FACILITIES BASED ON VOICE OF CUSTOMER AND QUALITY DIMENSION By Siti Amirah Badrudin	BET in Quality Engineering 2014
	DEVELOPMENT OF AUTONOMOUS MAINTENANCE PROCEDURE FOR PUBLIC RESTROOM FACILITY: A PILOT STUDY IN TELUK KEMANG BEACH By Muhammad `Ammar Bin Hamzah	BET in Quality Engineering 2014
	IMPROVEMENT OF PLANNING AT ONCOLOGY DEPARTMENT USING HEIJUNKA METHODOLOGY: CASE STUDY AT HOSPITAL SULTAN ISMAIL By Mohd Nazri Mohd Noor	BET in Quality Engineering 2014
	IMPROVEMENT OF WAITING TIME AT ORTHOPEDIC OUTPATIENT DEPARTMENT AT HOSPITAL SULTAN ISMAIL JOHOR BAHRU USING LEAN APPROACH By Mohd Nurhalim Mohd Sha'rani	BET in Quality Engineering 2014
LANGUAGES:	English and Malay Language	

TEACHING AND LEARNING:	a) JFB 10103 Introduction to Facilities Maintenance Engineering	
	b) JFB 10303 Electrical System Design and Installation	
	c) JFB 10503 Welding & Metal Fabrication	
	d) JFB 20403 Boiler : Operation and Maintenance	
	e) JFB 20703 HVAC 2: Technology of Industrial Refrigeration	
	f) JGB 30503 Project Management	
	g) JFB 40103 Standard and Certification in Facilities Maintenance	
	g) JFB 40203 Computerised Maintenance Management System (CMMS)	
SELECTED PUBLICATIONS:	Wahab, M.I.A., Majid, M.K., Abdullah, A., Yacob, S., Zahid, M.M., Adrutdin, K.F., Tohid, M.Z.W.M. and Buang, R.R., (2015). Factors Affecting Students' Intention to Study at Higher Learning Institution of Technical and Vocational Education and Training.	2015
	Mohamad Ikbar, A.W., Allina, A., Rahmat, R.B., Yacob, S., Nazif, H.M., Noor Sulawati, M.R., Haziq, Z.M., Nurulhuda, A., Amran, M.D., Ishamuddin, M., Fairul Anwar, A.B., Mohd Zul Waqar, M.T., N Latipah, Y Noor Anim Zanariah (2014). Six Sigma Applications: Enhancement Sigma Level towards Quality Improvement at Automative Company. <i>Advanced Materials Research</i> .	2014
	Bakri, A.H., Rahim, A.R.A., Yusof, N.M., Razali, W.K.M., Tohid, M., Mohd, Z.W. and Ismail, S.A., (2014). A Review on the Total Productive Maintenance (TPM) Conceptual Framework. <i>Applied Mechanics & Materials</i> , 660.	2014
	Rahim, A., Rahman, A., Noordin, M.Y., Razali, M., Kartini, W., Zul-Waqar, M., Tohid, M. and Shaiful Anwar, I., (2014). Issues in Total Productive Maintenance (TPM) Implementation: Justification of Employing Case Study Methodology. In <i>Applied Mechanics and Materials</i> (Vol. 660, pp. 988-994). Trans Tech Publications.	2014
	Ho, W.S., Tohid, M.Z.W.M., Hashim, H. and Muis, Z.A., (2014). Electric system cascade analysis (ESCA): solar PV system. <i>International Journal of Electrical Power & Energy Systems</i> , 54, pp.481-486.	2014

AWARDS AND RECOGNITIONS:	Malaysia Technology Expo (MTE) 2017 Category: Open Category (Office Equipment) Award: Gold Medal Title: CHARGISZI...Now charging is made easy..	2017
	UniKL MITEC Research & Innovation Award 2016 - The Best Reseracher Award 2016 (External Research Grant)	2016
	Eureka Innovation Exhibition 2015 Category : Green Technology Award : Gold Medal Project Title : Harvesting Energy in Ducting System for Low Power Application	2015
PROFESSIONAL SERVICES AND PROFESSIONAL MEMBERSHIP:	· Board of Engineer Malaysia, Graduate Engineer	70944A
	· The Institution of Engineering and Technology, UK. Associate Member	1100156154
	· Malaysian Society of Engineering Technology (MySET) :	MMSET (01354)
	· Certified HRDF Trainer	TTT 11628
	· Certified Energy Manager (CEM)	CEM-MY-1023-1016
CONSULTANCE AND COMERCIALIZATION:	a) Lean Healthcare – Heijunka Patient’s Appointment Levelling at Specialist Clinic, Hospital Sungai Buloh, Selangor Project Owner: Performance Management and Delivery Unit (PEMANDU), Jabatan Perdana Menteri. Role: Principal Consultant Duration: Mac-July 2017 Status: On-Going	2017
	b) Modern Policing Phase 2 at Ibu Pejabat Polis Daerah Seri Alam, Johor. Consultation Project with Royal Police of Malaysia (PDRM). Project Owner: Performance Management and Delivery Unit (PEMANDU), Jabatan Perdana Menteri. Role: Project Leader / Principal Consultant Duration: Feb-November 2016 Status: Completed	2016

	<p>c) Modern Policing Phase 1 at Balai Polis Brickfields and Balai Polis Taman Tun Dr Ismail. Consultation Project with Royal Police of Malaysia (PDRM). Project Owner: Performance Management and Delivery Unit (PEMANDU), Jabatan Perdana Menteri. Role: Project Leader / Principal Consultant Duration: Feb-August 2015 Status: Completed</p>	2015
	<p>d) Public Facilities Improvement (PFI) at Pantai Teluk Kemang, Port Dickson, Negeri Sembilan. Consultation Project with Kementerian Perumahan dan Kerajaan Tempatan (KPKT) and Majlis Perbandaran Port Dickson (MPPD). Project Owner: Performance Management and Delivery Unit (PEMANDU), Jabatan Perdana Menteri. Role: Project Leader / Principal Consultant Duration: Feb- Nov 2015 Status: Completed</p>	2014
	<p>e) Mechanical and Measurement Training at Dan Cafe, Johor Bahru, Johor. Role: Main Trainer Duration: 1 Day</p>	2014
COURSES, WORKSHOPS AND TRAININGS ATTENDED:	AEMAS Energy Manager Training Course	2016
	Code of Practice for Programme Accreditation (COPPA)	2016
	SKF PdM Product Training – Bearing Monitoring Kit, Shaft Alignment Tools and Baker Dynamic Motor Analyser.	2016
	SIRIM Training for Internal Auditor: ISO 9001-2008	2015
	Compressed Air Preparation and Distribution System	2015
	FMM Boilerman Grade 2 Certification	2015
	Train The Trainer Certification Malaysia – PSMB TTT	2014
	Mechanical Engineering for Non Mechanical Engineer	2014
	Critical Competency Behavioural Interview	2014
	Effective Building Maintenance Management	2013
	Personal Skill for the Working Environment, UK.	2010
	Steam Engineer Course (Boiler and Steam Turbine Operation).	2006