



**Name** : Azli Bin Yahya  
**Date of Birth** : 7 January 1973  
**Nationality** : Malaysian  
**Marital Status** : Married

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: Tel: 012-3837347 (H/P)

**Corresponding** : Academic Office, Level 3, Block A V01,  
Faculty of Biosciences & Medical Engineering (FBME),  
UTM Johor Bahru, Johor

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### **ACADEMIC QUALIFICATION**

Year 2006 : Ph.D (Power Electronics & Manufacturing)  
University of Loughborough, UK  
Year 1998 : M.Sc. (Electronic Production)  
University of Glamorgan, Wales  
Year 1997 : B. Sc. (Electro-mechanical Power System)  
University of Glamorgan, Wales

### **PROFESSIONAL QUALIFICATION**

Year 2015 : CEng, Chartered Engineer UK - The Institution of Engineering and  
Technology (IET)

## **AWARDS AND HONORS RECEIVED**

### **Awards/Achievement**

- i) 2014 – Bronze Medal, Hip Tribology Mechanism For Screening Acetabular Cup with Embedded Pits (INATEX2014)
- ii) 2013 – Silver Medal, STAR – ROV, International Engineering Invention & Innovation Exhibition (i-ENVEX2013)
- iii) 2013 – Silver Medal, Intelligent STAR – ROV Controller, International Engineering Invention & Innovation Exhibition (i-ENVEX2013)
- iv) 2013 – Gold Medal, Hip Screening Mechanism for Tribology Hip Prosthetic Application, International Engineering Invention & Innovation Exhibition (i-ENVEX2013)
- v) 2013 – Gold Medal, A computerized Monopoly Education Board System “Jauhari” (MTE2013)
- vi) 2013 – Bronze Medal, Novel EDM Positioning System (i-ENVEX2013)
- vii) 2013 – Bronze Medal, Novel Acetabular Cup With Embedded Micropits For Hip Implant Application (INATEX2013)
- viii) 2013 – Bronze Medal, Low Cost Motorised Wheelchair (i-ENVEX2013)
- ix) 2013 – Bronze Medal, Hip Implant Tribology Characteristics Using Hip Screening Mechanism (INATEX2013)
- x) 2013 – Best of the best Award, Hip Screening Mechanism for Tribology Hip Prosthetic Application, International Engineering Invention & Innovation Exhibition (i-ENVEX2013)
- xi) 2013 – Best Award Class G, Hip Screening Mechanism for Tribology Hip Prosthetic Application, International Engineering Invention & Innovation Exhibition (i-ENVEX2013)
- xii) 2012 – Silver Medal, Wifi Controlled Mobile Robot For Surveillance System, International Engineering Invention & Innovation Exhibition (i-ENVEX2012)
- xiii) 2012 – Silver Medal, Animation Representation Of Electrical Discharge Machining Process For Educational Purpose, International Engineering Invention & Innovation Exhibition (i-ENVEX2012)
- xiv) 2012 – Korea Special Award, Universal Gel Electrophoresis Container To Improve DNA Separation Time, International Engineering Invention & Innovation Exhibition (i-ENVEX2012)
- xv) 2012 – Gold Medal, Universal Gel Electrophoresis Container To Improve DNA Separation Time, International Engineering Invention & Innovation Exhibition (i-ENVEX2012)
- xvi) 2011 – MOHE Grand Price, Low Cost Gel Electrophoresis Unit with New Design Improvement, International Engineering Invention & Innovation Exhibition (i-ENVEX2011)
- xvii) 2011 – Gold Medal, Low Cost Gel Electrophoresis Unit with New Design Improvement, International Engineering Invention & Innovation Exhibition (i-ENVEX2011)
- xviii) 2011 – Excellent Paper, ICMST2011
- xix) 2011 – Bronze Medal, Low Cost Gel Electrophoresis Unit with A Novel Gel Container to Reduce DNA Separation Time (INATEX2011)
- xx) 2011 – Best Award, Low Cost Gel Electrophoresis Unit with New Design Improvement, International Engineering Invention & Innovation Exhibition (i-ENVEX2011)
- xxi) 2011 – Anugerah Khidmat Cemerlang UTM, Citra Karisma
- xxii) 2010 – Faculty’s Best Researcher
- xxiii) 2001 – MOSTI PhD Scholarship

## **PROFESSIONAL EXPERIENCE**

### **Positions/Employer**

- i) 2015 – ‘Pensyarah Pakar Sambilan’, UMP
- ii) 2014 – ‘Pensyarah Pakar Sambilan’, UMP
- iii) 2013 – Jury of International Engineering Invention & Innovation Exhibition (i-ENVEX2013)
- iv) 2013 – Conference Chair ICEET2013, Japan
- v) 2012 – Advisor, GOP to India
- vi) 2011 – Invited Speaker at University of Sriwijaya, Indonesia

## **JOURNAL EDITOR/EDITORIAL/ADVISORY PANEL**

### **Journal Reviewer**

- i) American Journal of Electrical and Electronic Engineering (Feb 2015)
- ii) American Journal of Mechanical Engineering (Feb 2015)
- iii) Swarm Intelligent (SWRM) @springer .com (17 May 2014)
- iv) Journal of Mechanical Science and Technology (14 June 2013)
- v) Jurnal Teknologi (Sains & Kejuruteraan) (28 June 2012)
- vi) Jurnal Teknologi (Sains & Kejuruteraan) (27 July 2012) x 3
- vii) Electrical & Electronic Engineering, Scientific & Academic Publishing (31 October 2012)

## **CONFERENCE EDITOR/EDITORIAL/ADVISORY PANEL**

### **International Conference Reviewer**

- i) 4th International Conference on Electric Power and Energy Conversion Systems (EPECS'15)
- ii) The 2012 IEEE Region 10 Conference Sustainable Development Through Humanitarian Technology, Cebu Philippines
- iii) The 10th IEEE International Conference On Semiconductor Electronics(ICSE2012), KL
- iv) International Conference On Intelligent & Advanced Systems (ICIAS2012)
- v) TENCON 2012
- vi) Electrical, Control And Computer Engineering (INECCE), 2011
- vii) International Conference On Modeling, Simulation And Applied Optimization 2011 - 19-21 April 2011
- viii) 2nd International Conference On Electric Power And Energy Conversion Systems (EPECS 2011) At Sharjah, UAE
- ix) 5th International Conference On Technology And Automation ICTA'05

## **ADMINISTRATIVE EXPERIENCE**

### **A) Faculty Level**

#### **Faculty of Biosciences and Medical Engineering - FBME**

- i) 2012 – present, Postgraduate Academic Manager
- ii) 2012 – present, Chairman of Jawatankuasa MQA-PG
- iii) 2012 – present, Chairman of Jawatankuasa Promosi & Pemasaran
- iv) 2012 – present, Jawatankuasa Pengurusan Fakulti, JKP
- v) 2012 – present, Jawatankuasa Akademik Fakulti, JKA
- vi) 2012 – present, Jawatankuasa MQA-UG
- vii) 2012 – present, Jawatankuasa EAC
- viii) 2012 – present, Jawatankuasa Peralatan makmal
- ix) 2012 – present, Jawatankuasa HBS
- x) 2012 – present, Jawatankuasa Ruang
- xi) 2012 – present, Jawatankuasa Kualiti
- xii) 2012 – present, Jawatankuasa Etika
- xiii) 2012 – present, Jawatankuasa Penilaian Harga
- xiv) Present, Jawatankuasa Penyelidikan dan Inovasi

#### **Faculty of Health Science and Biomedical Engineering - FKBSK**

- i) 2010 – 2012, Jawatankuasa Pengurusan Siswazah Fakulti, JKPSF
- ii) 2010 – 2012, Jawatankuasa Pengurusan Fakulti, JKP
- xv) 2010 – 2012, Jawatankuasa Akademik Fakulti, JKA
- xvi) 2010 – 2012, Jawatankuasa Pengurusan Eksekutif, JKPE
- xvii) 2010 – 2012, Jawatankuasa Perolehan/Tender
- xviii) 2010 – 2012, Jawatankuasa Penggabungan FBB & FKBSK
- xix) 2010 – 2012, HBS Coordinator
- xx) 2009 – 2010, Chairman of Jawatankuasa KPI
- xxi) 2009 – 2010, Chairman of Jawatankuasa Biomedical Colliqium
- xxii) 2009 – 2010, Postgraduate Coordinator

#### **Faculty of Electrical Engineering – FKE**

- i) 2008 – 2009, Chairman of First Year Experience
- ii) 2007 – 2009, Head of Printed Circuit Laboratory

### **B) University Level**

- i) 2011 – 2014, Jawatankuasa Pengajian Siswazah Universiti, JAPSU (
- ii) 2010 – 2012, Jawatankuasa Unit Pemasaran Universiti, UPU

### ***NATIONAL COMMITTEE***

- i) 2011 – Panel, Proposal Evaluator & Interviewer for Polytechnic PhD Candidate, Kementerian Pelajaran Tinggi (Sabah & Sarawak)
- ii) 2011 – Panel, Pemilihan Proposal PhD Industri (Mybrain15), Kementerian Pelajaran Tinggi
- iii) 2008-2009, 2011 – Panel, Proposal Evaluator & Interviewer for Polytechnic PhD Candidate, Kementerian Pelajaran Tinggi (Semenanjung)
- iv) 2010 – Panel, Biasiswa Antarabangsa (MIS), Kementerian Pelajaran Tinggi

### ***INTERNATIONAL APPOINTMENT/COMMITTEE***

- i) 2013 – Advisor, International Graduate Conference, IGCESH2013
- ii) 2010 – Publication Organizer, ISSPA2010
- iii) 2001 – Publication Organizer, ISSPA2001

### ***PROFESSIONAL MEMBERSHIP AND RECOGNITION***

- i) MIEM, Graduate Member of The Institution of Engineers, Malaysia (IEM) - Registration no: 51281
- ii) MIEEE, Member of The institute of Electrical and electronics Engineers, New York (IEEE), Registration no: 92131385
- iii) Engr, Board of Engineering Malaysia (Graduate Member)- 72268
- iv) MIET, Member of The Institution of Engineering and Technology (IET) - 1100300508

### ***TEACHING EXPERIENCES***

#### ***A) UNDERGRADUATE COURSES TAUGHT***

##### **Mainstream (51 credits)**

- i) Electronics / SKEU2012 - 20142015 Sem2
- ii) Electronic Devices / SKEE1063 - 20142015 Sem1
- iii) Digital Electronics / SKEE1223 - 20132014 Sem2
- iv) Electronic Devices / SKEE1063 - 20132014 Sem1
- v) Digital Electronics / SEU1212 - 20122013 Sem2
- vi) Electronic Devices / SKEE1063 - 20122013 Sem1
- vii) Digital Electronics / SKEE1223 - 20112012 Sem2
- viii) Introduction to Electrical Engineering / SKEE1012 - 20112012 Sem1
- ix) Digital Electronics / SEE1223 - 20102011 Sem2

- x) Electronic Device / SEE2063 - 20102011 Sem1
- xi) Instrumentation and Electrical Measurement / SEE1123 - 20092010 Sem2
- xii) Electronic Device / SEE2063 - 20092010 Sem1
- xiii) Electronic Circuit / SEE2253 - 20082009 Sem2
- xiv) Instrumentation and Electrical Measurement / SEU2123 - 20082009 Sem2
- xv) Digital Electronics / SKEE1223 - 20072008 Sem2
- xvi) Electrical Technology / SEU3003 - 20002001 Sem2
- xvii) Electronic II / 3253 – Kulim, 20002001 Sem2
- xviii) Electronic 1 / 3SZC – ATMA, 20002001 Sem1

## **B) POSTGRADUATE COURSE TAUGHT**

### **Postgraduate**

- i) Electronic Devices and Motor Control / MEV1303 (UTHM) - 20112012 Sem1
- ii) Research Methodology / UWP0010 - 20112012 Sem2
- iii) Research Methodology / UWP0010 - 20112012 Sem1
- iv) Research Methodology / UWP0010 - 20122013 Sem1
- v) Research Methodology / UWP0010 - 20132014 Sem1

## **GRANT**

### **A) RESEARCH PROJECT UNDERTAKEN**

#### **Project Leader (RM1,087,860)**

- i) Title: *Study On The Effectiveness Of Using Low Power Edm Current Generator In Machining Micropits On Hip Implant.*  
 Funded by: FRGS - R.J130000.7845.4F531  
 Duration: July 2014 – Jun 2016  
 Amount: RM 80,000
- ii) Title: *Efficient Pulse Power Generator For Electrical Discharge Machining (Edm) System*  
 Funded by: GUP - Q.J130000.2545.08H79  
 Duration: July 2014 – Jun 2015  
 Amount: RM 20,000
- iii) Title: *Prototype High Performance Gel Electrophoresis System*  
 Funded by: PRGS - R.J130000.7845.4L627  
 Duration: August 2013 – July 2015  
 Amount: RM150,000
- iv) Title: *An Online Thalassemia Management System*  
 Funded by: FLAGSHIP - Q.J130000.2445.00G63  
 Duration: Jan 2013 – Dec 2015

- Amount: RM200,000
- v) Title: *Development of Electrical Discharge Machining System to Enhance Survival Rate of Joint Replacement Implants*  
 Funded by: ESCIENCE - R.J130000.7936.4S025  
 Duration: April 2012 – March 2014  
 Amount: RM192,000
- vi) Title: *Noise Interference to Electronic ABR*  
 Funded by: FLAGSHIP - Q.J130000.2436.00G32  
 Duration: Aug 2011 – July 2014  
 Amount: RM305,860
- vii) Title: *Development of low power EDM Pulse Power Generator to Machine Micropits on Hip Implant*  
 Funded by: GUP - Q.J130000.2645.08J82  
 Duration: Jan 2013 – Dec 2013  
 Amount: RM40,000
- viii) Title: *Development Of A Dynamic Model Of An Electrical Discharge Machining System*  
 Funded by: GUP - Q.J130000.7123.01J02  
 Duration: April 2011 – March 2012  
 Amount: RM40,000
- ix) Title: *Material Removal Rate Algorithm Of Electrical Discharge Machining Process*  
 Funded by: FRGS – R.J130000.7823.3F548  
 Duration: April 2010 – March 2012  
 Amount: RM40,000
- x) Title: *Machining Parameters Due To Servomechanism Influences Of A Die-Sinking EDM System*  
 Funded by: New Academic Staff (with PhD) – UTM - R.J130000.7723.3P036  
 Duration: June 2008 – May 2009  
 Amount: RM10,000
- xi) Title: *Fuzzy C-Means Clustering Algorithm For DNA Computing Readout Method Implemented On DNA Engine Opticon 2 Machine*  
 Funded by: IRGS – UTM - R.J130000.7723.3G017  
 Duration: Jan 2008 – Jan 2009  
 Amount: RM10,000

**Researcher (RM1,346,009.57)**

- i) Title: *Oil Analysis Of Palm Stearin As Bio-Lubricant*  
 Funded by: FRGS - R.J130000.7824.4F610  
 Duration: Dec 2014 – Nov 2016  
 Amount: RM140,200
- ii) Title: *Study On Echolocation And Acoustics Of Swiflets For Determination Of Optimum Sound System For Swiflet Birdhouse*  
 Funded by: GUP - Q.J130000.2523.05H41  
 Duration: April 2014 – Mac 2016  
 Amount: RM 90,000
- iii) Title: *Development of Non-Thermal Plasma Needle for Bio-Medical Applications*  
 Funded by: GUP  
 Duration: April 2014 – Mac 2016  
 Amount: RM76,809.57

- iv) Title: *A new workpiece positioning system of electrical discharge machining for machining micro pits on metal-on-metal hip implant for lubrication purpose*  
 Funded by: FRGS - R.J130000.7823.4F394  
 Duration: Dec 2013 – Dec 2016  
 Amount: RM61,000
- v) Title: *Experimental Evaluation Of Friction On Acetabular With Different Viscosity Lubricant And Pits Pattern*  
 Funded by: FRGS - R.J130000.7824.4F229  
 Duration: April 2013 – March 2015  
 Amount: RM118,000
- vi) Title: *Integrated Communication Accelerated Haemoglobinopathies Management System*  
 Funded by: FLAGSHIP - Q.J130000.2445.01G23  
 Duration: April 2013 – March 2014  
 Amount: RM150,000
- vii) Title: *Computerized speech stuttering therapy and rehabilitation system*  
 Funded by: GUP - Q.J130000.2545.04H41  
 Duration: Jan 2013 – Dec 2014  
 Amount: RM100,000
- viii) Title: *High Endurance Autonomous Unmanned Aircraft - Phase 1*  
 Funded by: FLAGSHIP  
 Duration: April 2013 – March 2014  
 Amount: RM450,000.00
- ix) Title: *Manufacturing Method for Machining Micro Pits of Hip Implant for Metal-on-Metal Lubrication*  
 Funded by: GUP - Q.J130000.2623.08J62  
 Duration: Jan 2013 – Dec 2013  
 Amount: RM40,000
- x) Title: *Development of low power EDM system*  
 Funded by: GUP - Q.J130000.7123.01J05  
 Duration: April 2011 – March 2012  
 Amount: RM40,000
- xi) Title: *Development of Pulse Power Generator for Micro Electrical Discharge Machining (EDM) System*  
 Funded by: GUP - Q.J130000.7123.01J03  
 Duration: April 2010 – March 2012  
 Amount: RM40,000
- xii) Title: *Theoretical formulation for reduce DNA Separation Time using high efficiency SMPS of a Gel Electrophoresis Unit*  
 Funded by: Short term Grant - R.J130000.7723.3T074  
 Duration: Nov 2009 – May 2011  
 Amount: RM20,000
- xiii) Title: *Development of An Algorithm For Contour Matching and Fish Recognition System In Air Putih River Basin*  
 Funded by: Short term Grant – 77255  
 Duration: Nov 2009 – May 2011  
 Amount: RM20,000



## **B) EVALUATOR**

### **Evaluator for University Grant – UTM**

- i) LRGS 2013 – National Healthcare Service for Hearing Screening, Heart Diagnostic and Speech Therapy
- ii) FRGS 2013 – Classification of Biomedical Time Series using State-space Models
- iii) GUP 2013 – Development of High Resolution Auditory Brainstem Response Acquisition Circuit for Low Noise Measurement
- iv) eSCIENCEFUND 2012 - Unmanned Aerial Vehicle (UAV) video content analysis for object detection for autonomous tracking using visible and thermal infra red images
- v) eRGS 2012 – Exploratory Study of A Malay Trainable Speech Synthesis System
- vi) PRGS 2012 – Development of A Prototype Three Lead ECG and Heart Sound Data Acquisition System for Intelligent Diagnostics of Cardiac Disease
- vii) GUP 2012 – Identification of Situation based Environment Towards Noise Reduction in EEG and ECG Acquisition
- viii) GUP 2012 – Identification of Working Memory Impairments in Children Using Event Related Potentials Based on Wavelet Algorithm
- ix) GUP 2012 – PIC Based Temperature Monitoring System Using ZigBee Technology for Medical Storage application
- x) GUP 2012 – Identification of Dynamic Drawing Features for Detecting and Classifying Handwriting Behaviour in Children Automated System
- xi) FRGS 2012 – Voice Parameter Analysis for Voicing Disorder
- xii) FRGS 2012 – Sequential Monte Carlo Methods for Parameters Estimation in Non-Linear Non-Gaussian State-Space Models with Applications to biomedical Signal Processing
- xiii) eSCIENCEFUND 2012– Event related potentials detection on working memory cognitive and sensory response among normal and ASD children
- xiv) GUP 2012 T1 – State space modeling of biomedical time series: Model formulation, state and parameter inference with application to biomedical signal processing
- xv) LRGS 2011 – HIDDEN Markov Models for Modelling of Time Series: Theory, Methods and Applications
- xvi) SCIENCEFUND 2011 – Standalone Digital Signal Processing (DSP) Design Biomedical Signal Processing Based on Kalman Filtering
- xvii) PRGS 2011– Development of A Prototype ABR system for effective newborn hearing screening
- xviii) PRGS 2011 – Development of a prototype telemedicine application for intelligent diagnostic of cardiac disease
- xix) LRGS 2011 – HIDDEN Markov Models for Modelling of Time Series: Theory, Methods and Applications in the Biomedical Engineering Field
- xx) FRGS 2010 – Basic Study of Simulated Annealing Algorithm in Unit Selection for Malay Text-to-Speech Synthesis System
- xxi) SCIENCEFUND MOA 2010 – Implementation of Watermelon’s Grading System Using Digital Signal Processing
- xxii) eRGS 2011 - The Design Of Auditory Brainstem Response (ABR) Measurement Chamber For High Quality ABR Result
- xxiii) FRGS 2011 - Sequential Monte Carlo Methods for Parameter Estimation in Non-linear Non-Gaussian State-Space Models with Applications to Biomedical Signal Processing

- xxiv) FRGS 2011 - Voice Parameter Analysis for Voicing Disorder
- xxv) GUP 2011 - Sequential Monte Carlo Methods for Parameter Estimation in Non-linear Non-Gaussian State-Space Models with Applications to Biomedical Signal Processing
- xxvi) GUP 2011 - Development of Malay Speech Technology for Preschool Vocabulary Learning System
- xxvii) GUP 2011 - The Design Of Auditory Brainstem Response (ABR) Measurement Chamber For High Quality ABR Result
- xxviii) GUP 2011 - Adaptive Wavelet Filter Bank for Intelligent Diagnostic of Cardiac Diseases
- xxix) GUP 2011 - Development of Prototype to Characterize Blood Glucose Test Strip
- xxx) LRGS2011 – December, Hidden Markov Models for modeling of time series: theory, methods and its application in the biomedical engineering field

### **PATENT**

- i) Spherical Workpiece Positioning System in Electrical Discharge Machine for Machining Micro-pits - PI 2014 700896

### **POSTGRADUATE SUPERVISION**

#### **PhD Student (Main Supervisor)**

- i) Trias Andromeda (Graduated 2015)
- ii) Nor Lyana Safura binti Hashim (On-going)
- iii) Nazriah Mahmud (On-going)
- iv) Dana Deghani (On-going)
- v) Rajandran a/l Murthui (Defer)

#### **PhD Student (Co Supervisor)**

- i) Ade Erawan (On-going)
- ii) Md Razak bin Daud (On-going)

#### **MPhil Student (Main Supervisor)**

- i) Kartiko Nugroho (Graduated 2015)
- ii) Muhammad Syazani (On-going)
- iii) Musab Zahari (Defer)

#### **MPhil Student (Co Supervisor)**

- i) Muhammad Faiz bin Mohamed Saaid (Graduated 2009)
- ii) Lin Chin Min (On-going)
- iii) Nabil Warid (On-going)
- iv) Parveen (On-going)
- v) Nurul Eman (On-going)

#### **MSc Student (Main Supervisor)**

- i) Giritharan Narayan (Graduated 2010)
- ii) Elnaz Karimpour (Graduated 2014)
- iii) Fatemeh Karimi pour (Graduated 2014)
- iv) Shuruq Abd Al Ameer (Graduated 2014)
- v) Abu Bakar (Graduated 2015)
- vi) Hassan Lee (On-going)

## **POSTGRADUATE EXAMINATION /VIVA/EVALUATION SEMINAR**

### **A) UTM – PhD**

#### **PhD Evaluation Proposal – Faculty of Health Sciences and Biomedical Engineering**

- i) Lau Chee Yong, Malay Trainable Speech Synthesis System - 20112012 Sem 1
- ii) Raziah Esa, Insect sensor as an inspiration for biomedical sensing device - 20112012 Sem 1
- iii) Lum Kin Yun, Speech Therapy - 20122013 Sem 1
- iv) Gan Hong Seng, Speech Signal Analysis - 20122013 Sem 1
- v) Lee Chia Yew, Malay Trainable Speech - 20122013 Sem 1

#### **PhD Evaluation Proposal – Faculty of Electrical Engineering**

- i) Suhaila binti Mohd Najib, Development of Tomographic instrumentation system based on CMOS Area Image Sensor for food Industry - 20112012 Sem 1
- ii) Ahmad Ridhwan bin Md Zin, Developemnt of an intelligent pipeline Inspection Gauge (PIG) based on Ultrasonic sensor for monitoring corrosion - 20112012 Sem 1

#### **PhD Abstract Examiner - FBME**

- i) Chin Wee Lip - 4 March 2013

#### **Assistant Chairman Viva for PhD Faculty of Health Sciences and Biomedical Engineering**

- ii) Lai Khin Wi - 2011/2012 sem 2

### **B) UTM – Master**

#### **Master Evaluation Proposal – Faculty of Biosciences and Medical Engineering**

- i) Muhammad Iqbal Tariq, Hajj Simulation Studio: Total Fitness and Nutritional Monitoring System for Hajj Pilgrims - 20122013 Sem 1
- ii) Khairuddin Hassan, Hand-eye Coordination Analyser - 20122013 Sem 1

#### **Master Evaluation Proposal- Faculty of Electrical Engineering - MEH1813 Taught Course 20112012 Sem 1**

- i) Ashvinni a/p Palusamy - Location and Recognition of Car's Logo

- ii) Lim Lay Leng - Low Power low-dropout voltage regulator (LDO) with Fast Load Transient Response
- iii) Heng Ai Hoon - Reconfigurable Address Generation Unit for 2D Convolution in FPGA
- iv) Hong Gaik Hi - Development of A Fixed Pipeline GPU on FPGA with Shading and Frame Buffering Capabilities
- v) Lee Fang Soong - Vision-based Customer Counting for Shopping Lots
- vi) Sangkeetha a/p Subramaniam - Determining Vehicle Type from its Frontal Profile
- vii) Lim See Leng - VLSI Design of Sorting Algorithm
- viii) Ng Bee Yee - FPGA Implementation of Image Processing 2D Convolution for Spatial Filter
- ix) Ong Paik Wen - Face Image Quality Inspection According to ISO Standard
- x) Ow Shen Wah - Design of Digital Filters in FPGA
- xi) Chin Kang Hui – TBA
- xii) Sunil Shashikant Gathani - ARM Emulator

### **20082009 Sem 2**

- i) Fazlida Dahalan - Packet level Spam Finger printing
- ii) Ganesan A/L V. Murugesu - Distributed Microcontroller System using Can Bus
- iii) Rabindra A/L Ghandi Thangarajoo - FPGA Controller

### **20082009 Sem 1**

- i) Liew Jia Lin - Thumb Classification using maximum likelihood function based on texture analysis

### **20072008 Sem 2**

- i) Kuay Chong Lee - Interconnect Delay and Routing in Nanometer VLSI
- ii) Chua Lee Ping - RTL Design of SHA-512 Processor Core for Secure Message Hashing
- iii) Ivan The Fu Sun - Instruction Set Simulator (ISS) Development for Altera NIOS II Processor
- iv) Liew Meng Wei - RTL Design of Modular Arithmetic Processor (MAP) Core for Prime Finite Field Arithmetic

### **20072008 Sem 1**

- i) Norli Jaswadi - Image Zooming and Enhancement for CCTV Application
- ii) Rami Hussen Mohammed Altilib - Packet Level Intrusion Detection

### **Internal Master Thesis Examiner Faculty of Health Sciences and Biomedical Engineering**

- i) Mohd Redzuan bin Jamaludin - 20112012 Sem 1
- ii) Siti Hadrina bt Sheikh Hussien - 20112012 Sem 2
- iii) Saharudin Ismail - 20122013 Sem 1

### **Chairman Viva for Master Faculty of Health Sciences and Biomedical Engineering**

- i) Hafizah Harun - 2011/2012 Sem 1
- ii) Nurwina Akmal Anuar - 2011/2012 Sem2

### **C) External Examiner – PhD**

#### **External PhD Thesis Examiner - UiTM**

- i) Azmi Mohamed - Jan 2013

#### **D) External Examiner – Master**

##### **External Master Thesis Examiner – UiTM**

- i) Nurul Fathiah Mohamed Rosli – Jun 2015
- ii) Ahmad Zulhilmi Mohd Ziyadi - Julai 2012

#### **PUBLICATIONS AND PAPER PRESENTED**

##### **A) THESIS**

- i) Azli Yahya, Digital Control of Electrical Discharge Machining System, PhD Thesis, University of Loughborough, UK (2006).
- ii) Azli Yahya, Improvement of Three Ways Filters, Master Thesis, University of Glamorgan, UK (1998)
- iii) Azli Yahya, Automatic Gear Change of Bicycle, Bachelor Thesis, University of Glamorgan, UK (1997)

##### **B) ORIGINAL BOOK**

- i) Azli Yahya, M. Abdul Rahim and Z. Md. Yusof, Digital Electronics – Compact Notes, LAP Lambert Academy Publishing ISBN 978-3-8454-7618-6 (2011)

##### **C) ARTICLES IN MAGAZINE**

- i) Azli Yahya and Norhalimah Idris, Jigging for Squid, Fishing for PhD – FKBSK Magazine (2009)

##### **D) BOOK CHAPTER**

- i) Azli Yahya, Digital Control Strategy For Electrical Discharge Machining System, Advances In Digital Systems-UTM, December (2008)

##### **E) GRANT REPORT**

##### **Completed project**

- i) IRGS – Fuzzy C-Means Clustering Algorithm For DNA Computing Readout Method Implemented On DNA Engine Opticon 2 Machine
- ii) NEW ACADEMIC STAFF WITH Phd - Machining Parameters Due To .Servomechanism Influences Of A Die-Sinking Electrical Discharge Machining (EDM) System.
- iii) FRGS – Material Removal Rate Algorithm Of Electrical Discharge Machining Process
- iv) SHORT TERM GRANT – Theoretical Formulation For Reduce DNA Separation Time Using High Efficiency SMPS Of A Gel Electrophoresis Unit
- v) GUP - Efficient Pulse Power Generator For Electrical Discharge Machining (Edm) System
- vi) GUP - Development Of Low Power EDM Pulse Power Generator To Machine Micropits On Hip Implant
- vii) eSCIENCE - Enhancing Survival Rate Of Joint Replacement Implants Through Advanced Electrical Discharge Machining System
- viii) GUP - Development Of A Dynamic Model Of An Electrical Discharge Machining (Edm) System

## F) PUBLICATIONS

### Journal

- i) D.M.Razak,S. Syahrullail,N.Nuraliza,Y. Azli,N.Sapawe, "Surface Modification of Biomaterial Embedded with Pits using Die Sinker Machine", Scientia Iranica **(IF 0.842) (Revision)**
- ii) D.M.Razak, S. Syahrullail, N. Sapawe, Y. Azli, N.Nuraliza, "A New Tribological approach on Metal Cup with Optimize Pits Model using Spark Discharge Machine Particulate Science and Technology", **(IF=0.482) (Accepted)**
- iii) DM Razak, S Syahrullail, N Sapawe, Y Azli, N Nuraliza, "A New Approach using Palm Olein, Palm Kernel Oil and Palm Fatty Acid Distillate as Alternative Biolubricants: Improving Tribology in Metal on Metal Contact", Tribology Transactions 58 (3), 511-517 **(IF=1.349)**
- iv) **Nazriah Mahmud, Azli Yahya, Trias Andromeda**, "Electrical Discharge Machining Flyback Converter using UC3842 Current Mode PWM Controller", International Journal of Power Electronics and Drive Systems (IJPEDS) (2014) **(SCOPUS)**
- v) **Ade Erawan Bin Minhat, Nor Hisham Bin Hj Khamis, Azli Bin Yahya, Trias Andromeda, Kartiko Nugroho**, "Model of Pulsed Electrical Discharge Machining (EDM) using RL Circuit", International Journal of Power Electronics and Drive Systems (IJPEDS) (2014) DOI: 10.11591/ijped.v5i2.6681 **(SCOPUS)**
- vi) Lim Mim Mim, Naznin Sultana, **Azli Yahya**, "Fabrication and Characterization of Polycaprolactone (PCL)/Gelatin Electrospun Fibers", Applied Mechanics and Materials, (2014) **(SCOPUS)**
- vii) Andromeda Trias, **Yahya Azli**, Khamis Nor Hisham, "Gap Response of Linear and Non-Linear Discharge Model in Electrical Discharge Machining System", Applied Mechanics and Materials, (2014) pp. 554, 648-65 **(SCOPUS)**
- viii) Syahrullail, S., Razak, M. D., Sapawe, N., **Azli, Y.**, & Kartiko, N., "Effect of Low Current for Machining Pit Using Electrical Discharge Machine", In Applied Mechanics and Materials, (2014), (Vol. 554, pp. 180-184) **(SCOPUS)**
- ix) Nugroho Kartiko,**Yahya Azli**, Safura Hashim Nor Liyana, Samion Syahrullai, M. Daud Razak, "Development of Computer-Aided EDM for Machining Micropits on Spherical Surface of Hip Implant", Applied Mechanics and Materials, (2014), 554, pp, 541-545 **(SCOPUS)**
- x) A.E. Minhat, **A. Yahya**, N.H. Khamis, S. Samion, Z.A. Bakar, and T. Andromeda, "Power Generator of Electrical Discharge Machining (EDM) System, Applied Mechanics and Materials", (2014), 554, pp. 638-642 **(SCOPUS)**
- xi) A.E. Minhat, N.H. Khamis, **A. Yahya**, T. Andromeda, K. Nugroho, N.L.S. Hashim, N. Mahmud, and M. Razak, "Control Strategy for Electrical Discharge Machining (EDM) Pulse Power Generator", Applied Mechanics and Materials, (2014), 554, pp. 643-647 **(SCOPUS)**
- xii) A.E. Minhat, **A. Yahya**, N.H. Khamis, A.S. Samosir, M.A.A. Rahim, T. Andromeda, and K. Nugroho, "Model of Pulse Power Generator in Electrical Discharge Machining (EDM) System", Applied Mechanics and Materials, (2014), 554, pp. 613-617 **(SCOPUS)**
- xiii) Kartiko Nugroho, **Azli Yahya**, Nor Liyana Safura Hashim, Md Razak Daud, Nor Hisham Haji Khamis, Kamal Khalil, Muhammad Arif Abdul Rahim, Ameruddin Baharom(2014), Investigation of Workpiece Positioning Methods for Machining Oil-Pocket on Hip-Implant Spherical Surface, Key Engineering Materials Vols. 594-595 (2014) pp 535-539 **(SCOPUS)**
- xiv) Trias Andromeda, **Azli Yahya**, Syahrullail Samion, Ameruddin Baharom, Nor Liyana Hashim, "Differential evolution for optimization of PID gain in electrical discharge machining control

- system”, Transactions of the Canadian Society for Mechanical Engineering, (2013), Vol. 37, Issue 3, pp 293-301 **(IF=0.460)**
- xv) Nazriah Mahmood, Trias Andromeda, **Azli Yahya**, Nor Hisham Khamis, Syahrullail Samion and Ameruddin Baharom (2013), “Architecture and Training Algorithm of Feed Forward Artificial Neural Network to Predict Material Removal Rate to Predict Material Removal Rate of Electrical Discharge Machining Process”, Scientia Iranica - International of Science and Technology - Transaction on Mechanical Engineering, **(IF 0.842)**
- xvi) Nor Liyana Safura Hashim, **Azli Yahya**, Mohammed Rafiq Abdul Kadir, Nazriah Mahmud, Syahrullail Samion, Ameruddin Baharom, Nor Hisham Haji Khamis (2013) “A Review On Electrical Discharge Machining Servomechanism System”, Scientia Iranica - International of Science and Technology - Transaction on Mechanical Engineering **(IF 0.842)**
- xvii) **Azli Yahya**, Mohammed Rafiq, Razaudeen Zulkifli, Muhammad Arif, Trias Andromeda, Ameruddin Baharom, (2012) Development of Gel Electrophoresis Unit to Reduce DNA Separation Process Time – A Proof of Concept, Journal of Bionanoscience, Vol.7, 1-5, doi:10.1166/jbns.2013.1117 **(SCOPUS)**
- xviii) Nazriah Mahmud, **Azli Yahya**, Mohammed Rafiq Abdul Kadir (2012), Analysis And Simulation Of A Flyback Converter For Micro Machining Biomedical Component, Jurnal Teknologi. **(SCOPUS)**
- xix) Nazriah Mahmud, **Azli Yahya**, Mohammed Rafiq Abdul Kadir, Syahrullail Samion, Nor Liyana Safura Hashim (2012), “Pulse Power Generator Design for Machining Micro-pits on Artificial Hip Implant”, Jurnal Teknologi Special Edition. **(SCOPUS)**
- xx) Nor Liyana Safura Hashim, **Azli Yahya**, Mohammed Rafiq Abdul Kadir, Syahrullail Samion, Nazriah Mahmud (2012), “Simulation Of Micro-EDM Servomotor For Machining Micro Pits On Hip Implant”, Jurnal Teknologi Special Edition. **(SCOPUS)**
- xxi) Nazriah Mahmud, **Azli Yahya**, Mohammed Rafiq Abdul Kadir, Trias Andromeda, Nor Liyana Safura Hashim, (2012) Modeling of Flyback Converter for Micro Machining Biomedical Component, “Journal of Applied Mechanics and Materials **SCOPUS**
- xxii) Nor Liyana Safura Hashim, **Azli Yahya**, Trias Andromeda, Mohammed Rafiq Abdul Kadir, Nazriah Mahmud, Syahrullail Samion (2012) Simulation of PSO-PI Controller for Micro-EDM System in Biomedical Application, Procedia Engineering – Elsevier, vol.41. pp 805-811 **IEEE Xplore and SCOPUS**
- xxiii) Tiong Chiong Ing, **Azli Yahya**, Mohammed Rafiq Abdul Kadir & Syahrullail Samion, “Tribological Behaviour of Refined Bleached and Deodorized Palm Olein in Different Loads Using a Four-ball Tribotester” Journal of Zhejiang University – Science A **(IF= 0.882)**, 2012, DOI:10.1016/j.scient.2012.10.027
- xxiv) Tiong Chiong Ing, **Yahya Azli**, Abdul Kadir Mohammed Rafiq, Samion Syahrullail (2012) Tribological evaluation of refined, bleached and deodorized (RBD) palm stearin using fourball tribotester with different normal load, Journal of Zhejiang University-SCIENCE A (Applied Physics & Engineering) (ISSN: 1673-565X (Print); ISSN 1862-1775 (Online)) **(IF=0.882)**
- xxv) Tiong Chiong Ing, A. K. Mohammed Rafiq, **Y. Azli** and S. Syahrullail (2012) The effect of temperature on the tribological behavior of RBD palm stearin, Tribology Transaction (ISSN: 1040-2004 (Print), 1547-397X (Online)) **(IF= 1.349)**
- xxvi) **Yahya A**, Andromeda T, Minhat A E, Khamis N H, Khalil K and Rahim M A A (2012) Comparison Studies of Electrical Discharge Machining (EDM) Process Model for Low Gap Current, Advanced Materials Research Journal (ISSN: 1022-6680) **(SCOPUS)**

- xxvii) Andromeda T, **Yahya A**, Baharom A, Rahim M A A, Mahmud N (2011) Material Removal Rate Prediction of Electrical Discharge Machining Process Using Artificial Neural Network, Journal of Mechanics Engineering and Automation (JMEA) (**EBSCO**)
- xxviii) **Azli Yahya**, Ade Erawan Minhat, Trias Andromeda Abd Rachim, Nor Hisham Hj Khamis, Kamal Khalil & Muhammad Arif "Communication Within Hardware Of Electrical Discharge Machining (EDM) System". Jurnal Teknologi Special Edition, No.55, Mei 2011, pp. 201-211. (**SCOPUS**)
- xxix) **Yahya, A.** and Manning, C.D. (2004) Determination of material removal rate of an electro-discharge machine using dimensional analysis. J. Phys. D: Appl. Phys. 37 1467-1471 (**IF=2.721**)

## **REFEREED CONFERENCES**

### **Proceedings**

- i) A.E. Minhat, N.H. Khamis, **A. Yahya**, T. Andromeda, K. Nugroho, "Pulses Model of Electrical Discharge Machining (EDM)", International Conference on Electrical Engineering, Computer Science and Informatics (ECSI 2014)
- ii) S.Syahrullail, D.M.Razak, N.Sapawe1, **Y.Azli**, N.Kartiko (2014), Effect Of Low Current for Machining Pit Using Electrical Discharge Machine, WVCARMME2014, Kuala Lumpur.
- iii) Ade Erawan Minhat, **Azli Yahya**, Nor Hisham Khamis, Ahmad Saudi Samosir, Muhammad Arif Abdul Rahim, Trias Andromeda and Kartiko Nugroho (2014), Model of Pulse Power Generator in Electrical Discharge Machining (EDM) System, WVCARMME2014, Kuala Lumpur.
- iv) Ade Erawan Minhat, Nor Hisham Khamis, **Azli Yahya**, Trias Andromeda, Kartiko Nugroho, Nor Liyana, Safura Hashim, Nazriah Mahmud, M. Razak (2014), Control Strategy for Electrical Discharge Machining (EDM) Pulse Power Generator, WVCARMME2014, Kuala Lumpur.
- v) Ade Erawan Minhat, **Azli Yahya**, Nor Hisham Khamis, Syahrullail Samion, Zurkarmawan Abu bakar, Trias Andromeda (2014), Power Generator of Electrical Discharge Machining (EDM) System, WVCARMME2014, Kuala Lumpur.
- vi) Trias Andromeda, **Azli Yahya**, Nor Hisham H Khamis (2014), Gap Response of Linear and non-Linear Discharge Model in Electrical Discharge Machining System, WVCARMME2014, Kuala Lumpur.
- vii) Kartiko Nugroho, **Azli Yahya**, Nor Liyana Safura Hashim, Syahrullail Samion, Md Razak Daud (2014), Development of Computer-Aided EDM for Machining Micropits on spherical surface of Hip Implant, WVCARMME2014, Kuala Lumpur.
- viii) Nima Bahrami, Nor Hisham Khamis, Ameruddin Baharom and **Azli Yahya** (2013), Comparison of Sound Speed Equations Based on South China Sea Database, UMTAS2013, Terengganu.
- ix) **Azli Yahya**, Nor Hisham, Kamal Khalil, Kartiko Nugroho and Idham Muhammadon (2013), System control of life bait container, UMTAS2013, Terengganu.
- x) P. Bal, M. S. Shamsir, **Y. Azli**, M. N. M. Warid, J. Yunus, E. Supriyanto; 2013; eHealth to mHealth: Transition Of Healthcare From Electronic To The Mobile Age; 4th USIM Annual Health Conference on Medicine and Health (AHC2013)
- xi) Hamedi, M., Sh – Hussain, Salleh, **Yahya, A.**, A.K.Ariff. (2013), Designing A Multipurpose Interface Use In HMI Systems Based On Facial Gesture Recognition Technology Through Facial EMGs, NCCR2012
- xii) D.Mdrarak, S.Syahrullail, **Azli Yahya**, Nazriah Mahmud, Nor Liyana Safura Hashim And Kartiko Nugroho(2013), Lubrication On The Curve Surface Structure By Using Palm Oil And Mineral Oil, Malaysian International Tribology Conference 2013 (MITC2013)- Scopus



- xiii) Nor Liyana Safura Hashim, **Azli Yahya**, Kartiko Nugroho, Nazriah Mahmud, Md Razak Daud (2013), Development of Workpiece Positioning System in Electrical Discharge Machining for Biomedical Application, International Conference on Electrical Engineering and Technology (ICEET 2013), Tokyo May
- xiv) Kartiko Nugroho, **Azli Yahya**, Nor Liyana Safura Hashim, Md Razak Daud, Nor Hisham Haji Khamis, Kamal Khalil, Muhammad Arif Abdul Rahim (2013), Investigation of Workpiece Positioning Methods for Machining Oil-Pocket on Hip-Implant Spherical Surface, International Conference on Advanced Material Engineering & Technology 2013 (ICAMET 2013) – SCOPUS
- xv) Yussuff Abayomi, Nor Hisham Haji Khamis and **Azli Yahya** (2013), Rain Attenuation Models for a Tropical Station at 12, International Graduate Conference on Engineering, Science and Humanities (IGCESH2013)
- xvi) Lum Kin Yun, Tan Tian Swee, Rina Anuar, Zuraimi Yahya, **Azli Yahya**, Mohammed Rafiq Abdul Kadir (2013), Sign Language Recognition System using SEMG and Hidden Markov Model, WSEAS2013
- xvii) Md Razak Daud, Syahrullail Samion, **Azli Yahya** (2013), Electrical Discharge Machine Die Sinkers At Lower Current Rates Affect The Surface SKD 11, ICMER2013
- xviii) Md Razak Daud, Syahrullail Samion, **Azli Yahya**, Nazriah Mahmud, Nor Liyana Safura Hashim and Kartiko Nugroho (2013), Micro-Pits On Biomaterial In Electrical Discharge Machining By Using Taguchi Method, (WSEAS2013)
- xix) Md Razak Daud, **Azli Yahya**, Syahrullail Samion, Nazriah Mahmud, Nor Liyana Safura Hashim and Kartiko Nugroho (2013), Machining pits on the acetabular surface via Electrical Discharge Machining process, 4<sup>th</sup> International Graduate Conference on Engineering, Science and Humanities (IGCESH2013)
- xx) Nor Liyana Safura Hashim, **Azli Yahya**, Nazriah Mahmud, Kartiko Nugroho, Md Razak Daud and Trias Andromeda (2013), Review & Simulation Studies of Electrical Discharge Machining Servomechanism Controller, 4<sup>th</sup> International Graduate Conference on Engineering, Science and Humanities (IGCESH2013)
- xxi) Nazriah Mahmud, **Azli Yahya**, Trias Andromeda, Nor Liyana Safura Hashim (2013) Design and implementation of flyback converter for EDM power generator, 4<sup>th</sup> International Graduate Conference on Engineering, Science and Humanities (IGCESH2013)
- xxii) Trias Andromeda, **Azli Yahya**, Syahrullail Samion, Ameruddin Baharom, Nor Liyana Hashim (2012), Differential Evolution For Optimization Of PID Gain In Electrical Discharge Machining Control System, International Conference on Engineering and Technology Innovation (ICETI2012) November 2-6, 2012, Kaohsiung, Taiwan, ROC
- xxiii) Nazriah Mahmud, **Azli Yahya**, Mohammed Rafiq Abdul Kadir, Trias Andromeda, Nor Liyana Safura Hashim, (2012) Modeling of Flyback Converter for Micro Machining Biomedical Component, International Conference on Engineering and Technology Innovation (ICETI2012) November 2-6, 2012, Kaohsiung, Taiwan, ROC
- xxiv) Nazriah Mahmud, **Azli Yahya**, Mohammed Rafiq Abdul Kadir (2012), Analysis And Simulation Of A Flyback Converter For Micro Machining Biomedical Component, 16<sup>th</sup> Asian Conference on Electrical Discharge (ACED 2012) Johor, Malaysia, on December 2012
- xxv) Nor Liyana Safura Hashim, **Azli Yahya**, Trias Andromeda, Mohammed Rafiq Abdul Kadir, Nazriah Mahmud, Syahrullail Samion (2012) Simulation of PSO-PI Controller for Micro-EDM System in Biomedical Application, IRIS2012, Kuching Sarawak, Malaysia 4 – 6 September. **IEEE Xplore and SCOPUS**

- xxvi) Vishnu P, **Yahya A**, Thayala R, “SPICE Modelling of a Valley Switching Flyback Power Supply Controller for Improved Efficiency in Low Cost Devices”, IEEE International Conference on Circuits & Systems (ICCAS2012), October 2012, KL Malaysia. **IEEE Xplore**
- xxvii) **Azli Yahya**, Mohammed Rafiq, Razaudeen Zulkifli, Muhammad Arif, Trias Andromeda, Ameruddin Baharom, (2012) Development of Gel Electrophoresis Unit to Reduce DNA Separation Process Time – A Proof of Concept, ICAFBE 2012
- xxviii) T. Andromeda, **A. Yahya**, N H Haji Khamis, Ameruddin Baharom, M. Arif Abdul Rahim, “PID Controller Tuning by Particle Swarm Optimization on Electrical Discharge Machining Servo Control System”, ICIAS2012, Kuala Lumpur, Malaysia, 12-14 June 2012. **IEEE Xplore and SCOPUS**
- xxix) **A. Yahya**, T. Andromeda, M. Arif Abdul Rahim, Ameruddin Baharom, “Erosion Rate Model Comparison of Electrical Discharge Machining Process”, ICIAS2012, Kuala Lumpur, Malaysia, 12-14 June 2012. **IEEE Xplore and SCOPUS**
- xxx) Nazriah Mahmud, **Azli Yahya**, Mohammed Rafiq, Syahrullail Samion, Nor Liyana Safura. *Electrical Discharge Machining Pulse Power Generator to Machine Micropits of Hip Implant*. In 2012 International Conference on Biomedical Engineering (IcoBE). 2012. Penang, Malaysia: **IEEE Xplore and SCOPUS**
- xxxi) Nor Liyana Safura Hashim, **Azli Yahya**, Mohammed Rafiq Abdul Kadir, Syahrullail Samion, Nazriah Mahmud (2012). *Manufacturing Methods for Machining Micro Pits of Hip Implant for Metal-on-Metal Lubrication*. 2012 International Conference of Biomedical Engineering (IcoBE), Penang, Malaysia, **IEEE Xplore and SCOPUS**.
- xxxii) **Yahya A**, Andromeda T, Minhat A E, Khamis N H, Khalil K and Rahim M A A (2011) Comparison Studies of Electrical Discharge Machining (EDM) Process Model for Low Gap Current, ICMST2011, Singapore, September – (**Scopus Indexed**)- Award for Excellent paper
- xxxiii) Andromeda T, **Yahya A**, Khamis N H, Khalil K, Minhat A E (2011) Predicting Material Removal Rate of Electrical Discharge Machining (EDM) using Artificial Neural Network for High  $I_{gap}$  Current, INECCE2011, UMP Pahang, Malaysia **SCOPUS**
- xxxiv) Andromeda, T., **Yahya, A.** and Khamis, N.H.H (2010) Predicting Material Removal Rate of Electrical Discharge Machining (EDM) using Artificial Neural Network for low  $I_{gap}$  current, *ICEM2010*, Kuala Lumpur, Malaysia, November
- xxxv) **Yahya, A.** and Khamis, N.H.H (2009) Servomechanism Study of an Electrical Discharge Machining (EDM) System, *EMAP2009*, Penang, Malaysia, December
- xxxvi) Saaid M.F.M, Ibrahim Z, Khalid M and **Yahya A** (2008) Alternative Fuzzy C-Means Clustering for DNA Computing Readout Method Implemented on DNA Engine Opticon 2 System. *SITIS08*, Bali (INDONESIA), December **SCOPUS**
- xxxvii) Tri Basuki Kurniawan, Zuwairie Ibrahim, Muhammad Faiz Mohamed Saaid, and **Azli Yahya**, (2008) Implementation of Ant System for DNA Sequence Optimization, *NANO-SciTech 2008*, Shah Alam, Malaysia, 18-21 November
- xxxviii) **Yahya, A** and Manning, C.D. (2007) Modelling, Simulation and Experimentation of an Electro Discharge Machining (EDM) System, *CIM07 (UTM)*
- xxxix) **Yahya, A** and Manning, C.D. (2005) Material removal rate modeling of an electro-discharge machine, *Power Electronic Division, Sutton Bonington (UK)*, April
- xl) **Yahya A.** (2004) Material removal rate prediction of electro-discharge machine, *MRG, Manchester, April, UK*
- xli) **Yahya, A.** and Manning, C.D. (2003) Modelling, Simulation and Controller Design for Electro Discharge Machine System, *ESC Division Research, Leicestershire (UK)*, Sept., 21-23

- xlii) **Yahya, A.** (2003) Modelling and Controller Design for EDM System Based on DSP Microprocessor, *MRG Manchester (UK)*, Sept.
- xliii) **Yahya, A.** and Manning, C.D. (2003) Modelling and Simulation of Electro Discharge Machine Systems, *PREP2003, Exeter (UK)*, April
- xliv) Yahya A and Manning C D (2003) Modelling and simulation of Die Sinking Electro discharge machine systems. *3<sup>rd</sup> Asian Conf. on Industrial Automation and Robotics (Thailand)* pp 1–4

### **Poster Publication**

- i) Azli Yahya, Syahrullail Samion, Kamal, Kartiko, Trias, Nor Lyana (2013), Workpiece Positioning System For Machining Micro Pits Of Hip Implant , INATEX2013
- ii) Syahrullail Samion, **Azli Yahya**, Md Razak (2013), Novel Acetabular Cup With Embedded Micropits For Hip Implant Application, INATEX2013
- iii) Syahrullail Samion, **Azli Yahya**, Md Razak (2013), Hip Implant Tribology Characteristics Using Hip Screening Mechanism, INATEX2013
- iv) **Azli Yahya**, Shafeek Ahmad, Yuvarajoo Subramaniam, Nazriah Mahmud, Nor Hisham Khamis, Muhammad Arif (2013) Intelligent STAR-ROV Controller, i-ENVEX2013, UniMap
- v) **Azli Yahya**, Kamal Khalil, Ameruddin Baharom, Yuvarajoo Subramaniam, Shafeek Ahmad, Nor Liyana Safura (2013) STAR-ROV, i-ENVEX2013, UniMap
- vi) **Azli Yahya**, Syahrullail Samion, Mohammed Rafiq, Kartiko Nugroho, No Liyana Safura (2013) Novel EDM Workpiece Positioning, i-ENVEX2013, UniMap
- vii) **Azli Yahya**, Syahrullail Samion, Mohammed Rafiq, Muhammad Nabil, Md Razak, (2013) Hip Screening Mechanism for Tribology Hip Prosthetic Application, i-ENVEX2013, UniMap
- viii) **Azli Yahya**, Kartiko Nugroho, Muhammad Hanif, Norhalimah Idris, Rubita Sudirman, Camallil Omar (2013) Low Cost Motorized Wheelchair Controller, i-ENVEX2013, UniMap
- ix) T T Hon, Poongan B, Khalil K, Khamis N H and **Yahya A** (2012) Wifi Controlled Mobile Robot For Surveillance System, i-ENVEX 2012, UniMAP
- x) **Yahya A**, Zulkifli R, Arif M, Erawan A and Mahmud N (2012) Universal Gel Electrophoresis Container To Improve DNA Separation Time, i-ENVEX 2012, UniMAP
- xi) **Yahya A**, Hashim N S, Min C L (2012) Animation Of Electrical Discharge Machining Process For Educational Purpose, i-ENVEX 2012, UniMAP
- xii) **Azli**, Razauden, Shahrullail, Arif and Trias (2012) High Performance Gel Electrophoresis Unit for DNA Separation Time, Einix2012 One Utama, KL
- xiii) **Azli Yahya**, Syahrullail Samion, Razauden Zulkifli, Nor Lyana Safura Hashim, Nazriah Mahmud, Nurul Huda Abd Rahman, (2012) Educational Animation of Electrical Discharge Machining Process, INATEX2012
- xiv) **Azli Yahya** and Trias Andromeda (2012) PID Controller Tuning by Particle Swarm Optimization on Electrical Discharge Machining Control System, 9<sup>th</sup> MiCE Exhibition & Workshop 2012, MICE X
- xv) Azahar M, Andromeda T, **Yahya A**, Zulkiflee R, Arif M and Rafiq M (2011) Low Cost Gel Electrophoresis Unit with New Design Improvement, I-ENVEX2011, UniMAP
- xvi) **Azli**, Razauden, Nor Hisham, Kamal, Arif dan Trias (2011) Low Cost Gel Electrophoresis Unit with A Novel Gel Container to Reduce DNA Separation Time, INATEX2011, UTM
- xvii) Kamal, **Azli** and Nor Hisham (2010) Microcontroller Based Remote Locater Using Radio Frequency signal, INATEX2010