

RESUME

PERSONAL DATA

NAME : **Muhammad Amir Bin As'ari**
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TELEPHONE (HP) : **6016-7789685**
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DATE OF BIRTH : **09 Nov 1983**
SEX : **Male**
MARITAL STATUS : **Married**
NATIONALITY : **Malaysian**
COMPANY : **Faculty of Biosciences and Medical Engineering,
Universiti Teknologi Malaysia,
81310 UTM Skudai,
Johor, Malaysia.**



EDUCATIONAL BACKGROUND

2010-2014 **University Technology Malaysia (UTM)**, Doctor Of Philosophy Biomedical Engineering

2007-2008 **University Technology Malaysia (UTM)**, Master in Electronics and Telecommunication Engineering, **GPA 4.00**

2001-2006 **University Technology Malaysia (UTM)**, Degree in Electrical Engineering (Electronic), **GPA 3.35**

1996-2000 **1996-2000 SMK Dato' Abdul Rahman Yassin, Tampoi, Johor Bahru.**
SPM (O-level): Mathematics [A1] Additional Mathematics [A1] English Language [C6] Physics [A2] Chemistry[A2] Bahasa Melayu [A2] Pendidikan Islam[A1] Biology [A1] History [A2]

COMPUTER SKILLS

Microsoft Office, Assembly Language (for Intel-Based computers, Motorola Microcontroller 68HC11, Microprocessor 68000, PIC 16F series), Tanner Tools (L-Edit, S-Edit), MaxplusII, QuartusII, FPGA Express, Matlab, C Programming, Pspice, PIC C Compiler (CCS C), PLC (Programmable Logic Controller), Microsoft Visual Basic, Microsoft Visual C++, Delphi 7 and OpenCV.

EXTRA CURRICULAR ACTIVITY

Inter-Department Sport Championship, Universiti Teknologi Malaysia (2010)

Participate in Petanque and Futsal events.

Achievement:

Win gold medal for Petanque events

Kejohanan Sukam, Universiti Teknologi Malaysia (Intra-University Sport Championship)

Participate in Tug of War event for Siswa Desa Skudai College(2002), Tuanku Canselor College (2003), Tuanku Canselor College (2005) and Kolej 15 (2007)

Achievements:

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Win gold medal (2002) and silver medal (2007) for Tug of War events.

Joint Universiti Teknologi Malaysia Robotic's Team to participate Robofest (Malaysia Robot Games Festival 2004)

PRESENT APPOINTMENT

Jun 2014-Now: **Senior Lecturer at Faculty of Biosciences and Medical Engineering, University Teknologi Malaysia.**

PREVIOUS SUBSTANTIVE APPOINTMENTS

May 2009-Jun 2014 : **Tutor at Faculty of Biosciences and Medical Engineering, University Teknologi Malaysia.**
Feb 2009-Apr 2009 : **Research Assistant at Faculty of Electrical Eng, Universiti Teknologi Malaysia**
Jan 2008- Dec 2008 : **Research Assistant at Faculty of Electrical Eng, Universiti Teknologi Malaysia.**
June 2006-May 2007 : **Research Officer at Faculty of Electrical Eng, Universiti Teknologi Malaysia.**

TEACHING & MONITORING

Course: **Control, Modeling and Simulation (3 Credit)**
Undergraduate Program: **Bachelor of Biomedical Engineering**

Course: **Electrical Engineering Workshop (2 Credit)**
Undergraduate Program: **Bachelor of Biomedical Engineering**

Course: **2rd Year Laboratory (2 Credit)**
Undergraduate Program: **Bachelor of Biomedical Engineering**

Course: **3rd Year Laboratory (2 Credit)**
Undergraduate Program: **Bachelor of Biomedical Engineering**

Course: **4rd Year Laboratory (2 Credit)**
Undergraduate Program: **Bachelor of Biomedical Engineering**

EVALUATOR

- Final Year Project (Bachelor of Biomedical Engineering)
- 4th Year Laboratory-Problem Based Lab (Bachelor of Biomedical Engineering)

COMMITTEES

- BEM Member (Board of Engineers Malaysia)

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ADMINISTRATIVE EXPERIENCE

- FBME Open Day 2014 Committee (Advertisement Unit)
- "Route To Postgraduate Studies" Speaker
- Master Of Ceremonies In Assistive, Rehabilitative And Therapeutic Technology Competition (AR & ATTs)
- Medal and Dean's Honours List Awards Ceremony Committee
- Industrial Training Supervisor
- Examination Monitor
- New Building (V01) And New Laboratories Development Monitor
- EAC Document Preparation Committee
- Tender Evaluator (Technical Committee)
- FBME Family Day Chairman (2010)

RESEARCH INTEREST

Medical Image Processing, Digital Image Processing, Machine Learning and Ubiquitous Computing

RESEARCH

- Dec 2010-Dec 2013:** **Computer Vision, Video and Image Processing Research Group, Faculty of Electrical Eng, Universiti Teknologi Malaysia.** PhD study – **"Three-Dimensional Shape Descriptors For Human Action-Object Interaction Based On Kinect-like Depth Image"**
- May 2009-May 2010:** **Faculty of Biomedical And Health Science Eng, Universiti Teknologi Malaysia.** Supervise research – **"Bone Segmentation Based On X-Ray Image" and "Vision Based Bone Fracture Classification"**
- Feb 2009-Apr 2009:** **Computer Vision, Video and Image Processing Research Group, Faculty of Electrical Eng, Universiti Teknologi Malaysia.** Conducted a research – **"High Performance Vision Based Barcode Reader System for Mobile Application"**
- Jan 2008- Dec 2008:** **Computer Vision, Video and Image Processing Research Group, Faculty of Electrical Eng, Universiti Teknologi Malaysia.** Conducted a research – **"Bikers Early Detection Using Automated Vision System"**
- June 2006-May 2007 :** **Computer Vision, Video and Image Processing Research Group, Faculty of Electrical Eng, Universiti Teknologi Malaysia.** Conducted a research – **"Object's Shadow Removal Software"**
- June 2005-May 2006 :** **Computer Vision, Video and Image Processing Research Group, Faculty of Electrical Eng, Universiti Teknologi Malaysia.** Conducted a research – **"Image-Based ISBN Barcode Reader"**

RECOGNITION

1. International Journal Reviewer, Advance Robotics, "Human Tracking System Based on Adaptive Multi-feature Mean-Shift for Robot under the Double-Layer Locating Mechanism". 2014. **(Impact Factor: 0.562)**
2. International Conference Reviewer, Second International Conferences on Engineering Technology (ICET 2013)

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PUBLICATION

Journal

1. M. AS'ARI, U. SHEIKH, and E. SUPRIYANTO. XZ-Shape Histogram for Human-Object Interaction Activity Recognition based on Kinect-like Depth Image. *WSEAS Transactions on Signal Processing*. 2014. **(Scopus)**
2. M. A. As'ari, U. U. Sheikh, and E. Supriyanto. 3D shape descriptor for object recognition based on Kinect-like depth image. *Image and Vision Computing*. 2014. 32: 260-269. **(Impact Factor: 1.96, Q1 in Computer Vision and Pattern Recognition)**
3. M. A. As'ari, U. U. Sheikh, and E. Supriyanto. 3D Shape Descriptor for Activities of Daily Living (ADLs) Recognition Based on Kinect-Like Depth Images. *Journal of Medical Imaging and Health Informatics*. 2013. 3: 523-531. **(Impact Factor: 0.636)**

Conference

1. M. A. Asari, E. Supriyanto, and U. U. Sheikh. The Evaluation of Shape Distribution for Object Recognition Based on Kinect-Like Depth Image. *Computational Intelligence, Communication Systems and Networks (CICSyN), 2012 Fourth International Conference on*. 24-26 July 2012. 2012. 313-318.
2. M. A. As'ari and U. U. Sheikh. Vision based assistive technology for people with dementia performing activities of daily living (ADLs): an overview. *Fourth International Conference on Digital Image*
3. E. M. Majd, M. A. As'ari, U. U. Sheikh, and S. A. R. Abu-Bakar. Hybrid image segmentation using fuzzy c-means and gravitational search algorithm. *Fourth International Conference on Digital Image*
4. M. A. As'ari, U. U. Sheikh, and S. A. R. Abu-Bakar. Object's Shadow Removal with Removal Validation. *IEEE International Symposium on Signal Processing and Information Technology*. 15-18 Dec, 2007.

Lab Sheet for 3rd and 4th Year Laboratory (Bachelor of Biomedical Engineering)

1. X-Ray Image Processing (2009)
2. Stethoscope (2010)
3. X-Ray Image Processing-Lung Segmentation (2010)
4. Digital Low Pass Filter Design Using Matlab (2014)
5. ECG Detection Using Matlab (2014)

REFERRALS

1. Dr. Nasrul Humaimi Bin Mahmood

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Faculty of Biosciences and Medical Engineering,
Universiti Teknologi Malaysia,
81310 Skudai, Johor, Malaysia
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