

## PERSONAL DESCRIPTION

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NAME : SULAIMAN BIN SABIKAN  
DATE OF BIRTH : 07-09-1976  
FAMILY : Wife, 4 Children  
NATIONALITY : Malaysian  
WORK ADDRESS : Department of Electrical Technology,  
Faculty of Engineering Technology,  
Universiti Teknikal Malaysia Melaka(UTeM),  
Karung Berkunci 1200, Hang Tuah Jaya,  
76100 Durian Tunggal, Melaka, Malaysia.  
[www.utm.edu.my](http://www.utm.edu.my)  
TEL (O) : +606-2346548  
FAX (O) : +606-2346526  
e-mail : sulaiman@utm.edu.my



## ACADEMIC QUALIFICATIONS

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2009 : M.Sc Electrical Engineering, UTeM.  
*(Research Based with Title, Vision-Based Automated Guided Vehicle for Navigation and Obstacle Avoidance)*  
1999 : Bachelor Degree in Electrical Engineering (Mechatronic) Universiti Teknologi Malaysia

## WORKING EXPERIENCE

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April 2011 – Now                      Lecture  
Faculty of Engineering Technology, UTeM  
[www.utm.edu.my/ftk/](http://www.utm.edu.my/ftk/)  
Jan 2011 – April 2011 :              Senior Teaching Engineer,  
Faculty of Electrical Engineering, UTeM  
Oct 2003- Jan 2011 :                  Teaching Engineer,  
Faculty of Electrical Engineering, UTeM  
Feb 2002 – Sept 2003 :              Head of Engineering Department  
Kolej Yayasan Melaka  
Jan 2001 – Jan 2002 :                  Lecture  
Kolej Yayasan Melaka-Universiti Teknologi Malaysia  
July 1999 – Jan 2000 :                  Research Officer,  
Electronic & Telecommunication Research Centre,  
Technovation Park, Universiti Teknologi Malaysia  
Oct 1997 – Oct 1998 :                  Research Assistance in Robotics Lab,  
Faculty of Electrical Engineering, Universiti Teknologi  
Malaysia.



## TEACHING /WORKING EXPERIENCE

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- Oct 2003 – Present :           Universiti Teknikal Malaysia Melaka  
Teaching : *Electric and Electronic, Electrical Circuit, Electrical Technology, Digital Electronic, Engineering Workshop, Computer Aided Design, Computer Programming, Mechatronic System Lab*  
Lab Development : *Control, Instrumentation and Mechatronic Lab, Control System Lab, Robotic Lab*  
Project : *Participate in robotic competition, ROBOFEST2009, ROBOCON 2008 – 2010, MIROC 2013 - 2014 - PaintBall*  
*Webmaster and e-learning administrator*
- Jan 2001 – Sept 2003 :       Kolej Yayasan Melaka  
Teaching : *Advanced Digital and Basic Microprocessor, Advanced Microprocessor and Microcontroller, Programmable Logic Controller, Computer Engineering, Robotics, Engineering Drawing, AutoCAD, Manufacturing Process, Fluid Power and MLVK Electronic trainer*
- Jun 1999 – Jan 2000 :       Electronic & Telecommunication Research Centre  
Research : *Caller ID Future Phone using Samsung Microcontroller, Network Security (Blowfish Algorithm) using MaxPLUS II and Caller ID Box Project*
- Oct 1997 – Oct 1998 :       Research Assistance in Robotics Lab  
Jobs : *Troubleshooting and maintenance Industrial Robot, FMS, Automated Guided Vehicle.*  
Research : *Design and Development of Wall Climbing Robot.*

## MAIN AREAS OF RESEARCH INTEREST

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Mechatronics Systems  
Machine Vision System  
Mobile Robot Navigation  
Robotics



## RESEARCH GRANT

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1. Design And Develop Wireless Based Control Industrial Robotics, PJP, UTeM, PJP/2009/FKE (9C)/S00517
2. The Improvement On The Existing Motorcycle Rim Adjusting Jig, PJP/2009/FKM (4A)/S00525
3. Cooperative Mobile Robots For Distance Maintenance, PJP/2010/FKE (7C)/S00638
4. Development Of 4-Legged Walking Robot And Movement Algorithm, PJP/2011/FKE(6A)/S00824
5. Design and Development of Solar Tracking Device , PJP/2013/FTK(6A)/S01234, 01 OKT 2013 – 31 MAC 2015
6. Investigating the Use of Immune Inspired Model to Improve Cooperative Behaviours in Swarm Robotics, ERGS/1/2013/ICT02/UTEM/03/01, 01 June 2013 - 31 May 2015

## PUBLICATIONS

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1. *Vision-Based Navigation of An Autonomous Guided Vehicle For Tracking*, Proceedings of Malaysian Technical Universities Conference on Engineering and Technology, 2006
2. *Vision-based Automated Guided Vehicle for Navigation and Obstacle Avoidance*, Proceedings of Curtin University of Technology Sarawak Engineering Conference, 2007
3. *Track and Obstacle Detection with USB Camera for Vision-based Automated Guided Vehicle*, Proceedings of International Conference on Engineering and ICT, 2007
4. *Track and Obstacle Detection with USB Camera for Vision-based Automated Guided Vehicle*, Journal of Advanced Manufacturing Technology, 2007
5. *The Improvement On The Existing Motorcycle Rim Adjusting Jig* ,Journal of Advanced Manufacturing Technology, 2009
6. *Vision-Based Automated Guided Vehicle for Navigation and Obstacle Avoidance*, The 2nd International Conference on Engineering and ICT , 2010
7. *Development Of A Quadruped Crawling Robot Prototype*, 3 rd International Conference on Engineering and ICT (ICEI2012) Melaka, Malaysia ,2012



## RESEARCH AWARDS

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1. GOLD, Line Tracking And Obstacle Avoidance For Automated Guided Vehicle Using A USB Camera, Pecipta 2007, 2007, National
2. GOLD, Dual Band Dual Polarized Antenna, Brussels Innova, 2010, International
3. SILVER, Line Tracking And Obstacle Avoidance For Automated Guided Vehicle Using A Usb Camera, Brussels Innova, 2010, International
4. BRONZE, Auto Myraj (Automatic Motorcycle Rim Adjusting Jig), Brussels Innova, 2010, International.

## CONSULTATIONS

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1. Technology Provider for Kolej Kemahiran Tinggi Mara (KKTM), Kuantan Kolej Kemahiran Tinggi Mara (KKTM), Kuantan 2009 – Now
2. Academic Advisor Panel, Bahagian Kemahiran dan Teknikal, Majlis Amanah Rakyat 2014

## PROFESSIONAL AFFILIATION / MEMBERSHIP

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BEM (Board of Engineers Malaysia), Graduate member with REF 57635A , 2009 - to date

## REFEREES

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1. Prof. Dr. Marizan bin Sulaiman  
Dean, Faculty of Electrical Engineering, UTeM  
[marizan@utem.edu.my](mailto:marizan@utem.edu.my)
2. Associate Prof Rahimi bin Mohd Yusuf  
Dean, Faculty of Engineering Technology, UTeM  
[rahimi@utem.edu.my](mailto:rahimi@utem.edu.my)

