

Curriculum Vitae



PERSONAL PARTICULARS

Name: : MUHAMMAD NASIR BIN IBRAHIM

IC : : 610221-03-5003 (6121705)

Date of Birth: : 21 February 1961

Place of Birth: : Machang, Kelantan.

Sex: : Male

Nationality: : Malaysian

Status: : Married

Spoken Language : Malay, English, Arabic

Occupation: : Senior Lecturer

Current employer: : Universiti Teknologi Malaysia

Office Address: : Department of Computer Engineering and
Microelectronics (MiCE),
Faculty of Electrical Engineering,
Universiti Teknologi Malaysia,
81310, Skudai, Johor.

E-mail: : mnasir@fke.utm.my

Telephone No. : 07-553 5260 (office)
07-556 2416 (home)
013-736 9065 (h/p)

Fax No. : 07-556 6272

Home Address : 1 Jalan Ria 2, Taman Skudai Ria, 81300 Skudai, Johor.

ACADEMIC QUALIFICATIONS

Degree: PhD
Field: Control Engineering
Name of Institution: University of Sheffield
Place: Sheffield, United Kingdom
Title of Thesis: Onboard Processing of Real Time Satellite Data
Year: 2005

Degree: M.Sc
Field: Instrument Design and Applications
Name of Institution: UMIST
Place: Manchester, UK
Title of dissertation: Application of Tomographic Technique to Particle Tracking.
Year: 1998

Degree: B.Eng
Class: First Class Honours
Field: Electrical and Electronic Engineering
Name of Institution: Manchester Metropolitan University
Place: Manchester, UK
Final year project: Distributed Alarm System.
Year: 1995

SUPERVISION ACTIVITIES

Doctor of Philosophy in Electrical Engineering

1. Norhafizah binti Ramli (650615-05-5062/PE073083)
Particle Characterization using CMOS Sensor based Optical Tomography
2. Ahmad Ridhwan Md Zin (870530-12-5513/PE103075)
Development of an oil and gas pipeline monitoring system.
3. Siti Noormaya binti Bilmas (810107-01-5216/PE103176)
Development of an electronic Arabic dictionary
4. Suhaila binti Mohd Najib (880512-13-5194/PE103200)
Development of tomographic instrumentation system based on CMOS area image sensor for food industry
5. Normala binti Rahmat (740820-01-6694/PE113001)
Development of data logger and analyzer system to determine performance of automotive vehicle.
6. Ganesan a/l Murugesu (750427-14-5181)
An operating system for Pahlawan PA 1620 microprocessor.

Master of Electrical Engineering (By Research)

1. Nik Masni Maizatu Akmal binti Nik Abd Majid (860820-29-5888/ME103040)
High speed remote data acquisition

2. Mohd Nazri Bin Napiah (861224-23-5891/ME103031)
Development of a Non-destructive Corrosion Monitoring System
3. Mohd Amir Hamzah bin Ab Ghani (860211295479/ME103030)
A CCD based Optical Tomography
4. Mohd Aufa bin Saiedon (860408-38-7465/ME103052)
Online Arabic Dictionary
5. Saiful Ammar bin Nasrudin (861230-04-5197/ME103058)
Flood monitoring system using wireless sensor (FMSWS)

RESEARCH INVOLVEMENT

National Level

Head for the following projects

1. *“Morphological decomposition of well behaved and well ordered square matrix using Jin Lin’s mathematical loosely parallel operators for use in high speed image processors”*, Fundamental Research Grant Scheme (MOHE), 1 Apr 2010 – 31 Mac 2012 (Vot 78626 - RM44,000).
2. *“Mechanism of dependable low-power distributed real-time embedded processors”*, Fundamental Research Grant Scheme (MOHE), 2 Apr 2007 – 1 Okt 2009, (Vot 78154 – RM30,000).

Member of the following projects

1. *“Mechanism of a Complementary Metal-Oxide Semicondutor (CMOS) image sensor on particles’ characterization using tomographic techniques”*, Fundamental Research Grant Scheme (MOHE), 1 Apr 2010 – 31 Mac 2012. (Vot 78621 - RM40,000).
2. *“Studies and analysis of optical system in measurement of fruit quality using near-infrared spectroscopy”*, Fundamental Research Grant Scheme (MOHE), 15 Nov 2009 – 14 Nov 2011 (Vot 78503 – RM50,000).
3. *“Development of intelligent Arabic phonemes pronunciation evaluation system”*, eScience (MOSTI), Apr 2009 – Sep 2010 (Vot 79368 – RM100,400).
4. *“Mechanism of a charge-coupled device (CCD) sensor on particles’ characterisation using tomographic techniques”*, Fundamental Research Grant Scheme (MOHE), 2006-2008. (Vot 78038 – RM30,000).

University Level

Head for the following project

1. *“Loosely-coupled Multiple Microprocessor System”*, Universiti Teknologi Malaysia Funded Research Project, April., 1999-2001. (Vot 74139 – RM15,000)

Member of the following projects

1. “*Pembangunan bahan pengajaran untuk matapelajaran Instrumentasi*”, Dana Pembangunan Pengajaran (CTL, UTM). 2007 – 2008 (Vot 78038 – RM5,000).
2. “*High Speed Remote Data Acquisition*”, UTM Short Term Grant, (RMC, UTM), 1 July 2010 – 30 Nov 2011 (Vot 77366 – RM20,000).
3. “*Lightning Strike Counter*”, (BIP, UTM), 2007 – 2008 (Vot 98245 – RM30,000).

PUBLICATION

International Refereed Journal

1. Mariani Idroas, Ruzairi Abdul Rahim, Robert Garnet Green, **Muhammad Nasir Ibrahim** and Mohd Hafiz Fazalul Rahiman, “Image Reconstruction of a Charge Coupled Device Based Optical Tomographic Instrumentation System for Particle Sizing”. *Sensors*, Vol. 10, October 2010 pp 9512 – 9528. [IMPACT FACTOR: 1.89]
2. M. Idroas, R. Abdul Rahim, M.H. Fazalul Rahiman, R.G. Green. **M.N. Ibrahim**, “Optical Tomography System: Charge-coupled Device Linear Image Sensors”, *Sensors & Transducers Journal*, Vol. 120 Issue 9, September 2010, pp 62 – 69. [e-Impact Factor: 205.767]
3. Mariani Idroas, Ruzairi Abdul Rahim, Robert Garnet Green, **Muhammad Nasir Ibrahim** and Mohd Hafiz Fazalul Rahiman, “Optical Tomography System based on Charge-Coupled Device Linear Image Sensors: Particle Size Measurement”. *Sensors and Actuators B. Chemical*, ACCEPTED. [IMPACT FACTOR: 3.083]

National Journal

4. Zarina Mohd Noh, **Muhammad Nasir Ibrahim** Muzalifah Mohd Said, Norhidayah Mohamad Yatim, Rostam Affendi Hamzah “Implementing the Controller Area Network (CAN) Protocol for Multiplex System”. *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, Vol 2: No 2, December 2010, ISSN 2180-1843, pp 35-41.
5. Mariani Idroas, R.G Green and **M.Nasir Ibrahim**. “Image Reconstruction in CCD-based Optical Tomography”. *Jurnal ElektriKa*, Jun 2006.
6. Choo Kok Yang, **Muhammad Nasir Ibrahim**, “GSM based vehicle security system”, 6th. MiCE Exhibition Proceedings, ISBN 978-983-9805-57-5, April 2007, pp. 75 – 77.
7. Leow Chee Yen, Chee Way Hong, Tan Tian Swee, **Muhammad Nasir Ibrahim**, “Analysis and classification of movement related EEG”, 6th. MiCE Exhibition Proceedings, ISBN 978-983-9805-57-5, April 2007, pp. 115 - 118.

Working Paper:

International/Regional

1. **M.Nasir Ibrahim**, Zarina Mohd Noh, and Mariani Idroas, “Demonstrator for a Controller Area Network (CAN) system”, CIM ’09 Conference, Melaka, 2 – 3 June 2009.
2. Mariani Idroas, **M.Nasir Ibrahim** and R.G.Green, “Optical tomography system based on charge-coupled device linear image sensors”, CIM ’09 Conference, Melaka, 2 – 3 June 2009.
3. **M.Nasir Ibrahim** Mariani Idroas, Sh Hussein Sh Salleh, Leow Chee Yen, Chee Way Hong, and Tan Tian Swee, “Wavelet analysis of movement related EEG”, CIM ’07 Conference, Johor Bahru, 28 – 29 May 2007.
4. Mariani Idroas, See Yik Ling, Robert Garnett Green and **M.Nasir Ibrahim**. “Imaging of particle shape using CCD-based optical tomography”, CIM 07 Conference, Johor Bahru, 28 – 29 May 2007.
5. Mariani Idroas, R.G.Green and **M.Nasir Ibrahim**. “Optical tomographic instrumentation system based on charged coupled device (CCD) sensors”. International Conference on Science and Technology, UiTM Penang, 8-9 December 2006.
6. **M.Nasir Ibrahim**, Mariani Idroas and Hugo Alleyne. “A distributed multi-processor system for scientific mission satellite”. International Conference on Science and Technology, UiTM Penang, 8-9 December 2006.
7. **M.Nasir Ibrahim**, Hugo Alleyne and Mariani Idroas. “A digital wave processor (DWP) for space plasma measurement“. PREP 2005 Conference, Lancaster University (United Kingdom). 30 March-4 April 2005.
8. **M.Nasir Ibrahim**, Hugo Alleyne and Mariani Idroas. “Low power distributed processing system for satellite applications”, 2nd. MRG Conference. Manxhester (United Kingdom), 27 September 2003.
9. **M.Nasir Ibrahim**, Hugo Alleyne, Mariani Idroas. “Onboard processing of real time satellite data”. PREP 2003 Conference, University of Exeter (United Kingdom) 14-16 April 2003.

Book Chapters

1. Progress in Process Tomography & Instrumentation System, Series 2 / Chapter 3 - Imaging of particle shapes using Optical Tomography / UTM 2010.
2. Progress in Process Tomography & Instrumentation System, Series 1 / Chapter 10 – Optical tomography system based on charge-coupled device linear image sensors / UTM 2010.
3. Advances in Digital Systems / Chapter 7 - MyDWP: A new digital wave processor for satellite’s onboard data processing / UTM 2009.
4. Advanced Gas Technology / Chapter 1 – Imaging of particles using optical tomography based on charge-coupled device linear image sensor. / UTM 2009.