

CURRICULUM VITAE

PERSONAL INFORMATION

Name	ISKANDAR BIN YAHYA		
Position	Senior Lecturer (DS51)		
Affiliation	Universiti Kebangsaan Malaysia (The National University of Malaysia) 2008 - Present		
Nationality	Malaysian	Email	Iskandar.yahya@ukm.edu.my
Telephone No.	+603 8921 6311	Fax	+603 8911 8359
Date of Birth	14 September 1982	Age	34
IC Number	820914-01-6345	Mobile	+601129077429



ACADEMIC QUALIFICATION

- Meng (Electronics and Communications) University of Sheffield, 2006
- PhD (Electronics Engineering) University of Surrey, 2013

PROFESSIONAL MEMBERSHIP/SOCIETY

- Graduate Member, Board of Engineers Malaysia (BEM)
- Member, Institution of Electrical and Electronics Engineers (IEEE)

SUBJECTS AND COURSES TAUGHT

- Integrated Circuit Fabrication Technology
- Microelectronic Physics and Devices
- Advanced Microelectronic Devices
- Micro and Nano Fabrication Technology
- Nanoelectronics
- Introduction to MEMs Technology
- Digital Electronics
- Microprocessors and Microcomputers
- Undergraduate Electrical and Electronic Lab

RESEARCH AREA

- Microelectronic device fabrication
- Nanoelectronics
- Advanced carbon based devices
- Solar cells and Renewable energies

RESEARCH PROJECTS AND GRANTS

- Study of charge transport in Graphene-Carbon Nanotube hybrid structures for the fabrication of high performance electronic devices, FRGS/1/2015/TK04/UKM/02/2, Fundamental Research Grant Scheme (FRGS), 02/11/2015 - 01/11/2017, RM83,000.00, Project Leader.
- Characterisation And Analysis Of The Transport Properties Of Carbon Nanotube Field Effect Transistors, GGPM-2013-073, Grant for Young Researchers, 01/12/2013 - 30/11/2015, RM50000.00, Project Leader.
- Fabrication of PANI doped with metal alloys (Fe, Al, Ni, Mn, Co, Pd, Pt) based electrochemical biosensor irradiated with gamma ray for Leptospira detection application, DIP-2016-021, Prime Impact Grant, 24/10/2016 - 23/10/2018, RM100000.00, Joint Researcher.
- Surface Modification with Nano-structures and Nano-Scale Thin Film Coating for Enhanced Opto-electronic Conversion by Increased Activation Area, DIP-2015-021, Prime Impact Grant, 01/01/2016 - 31/12/2017, RM250000.00, Joint Researcher.
- Explosion Proof Certified 3-axis Gyro Stabilize Pan & Tilt Long Range Camera with Multiple Sensors and Radar Target Integration, PPRN-2015-007, Demand-Driven Innovation Project By Public-Private Research Network (PPRN), 15/03/2015 - 15/03/2016, RM30000.00, Joint Researcher.
- Control of carrier injection barriers in carbon nanotube field-effect transistor, GGPM-2014-

032, Grant for Young Researchers, 01/08/2014 - 31/07/2016, RM40000.00, Joint Researcher.

- Development of Earth-abundant, High Stability and Non-Toxic Cu₂SnS₃ (CTS) Thin Film Solar Cells for Hot Climatic Conditions, GUP-2016-042, Research University Grant, 01/05/2016 - 30/04/2018, RM113200.00, Joint Researcher.
- Development of Adaptive Digital Filter Algorithms for Robust Rfid Data Collection, UKM-GUP-TMK-07-02-109, Research University Grant, 01/10/2007 - 31/12/2012, RM534200.00, Joint Researcher.
- Silicon Carbide Based MEMS Microphone for Harsh Environment Sonic Detection and Monitoring, MRUN-2015-004, IRU-MRUN Collaboration Project, 01/10/2015 - 30/09/2018, RM50000.00, Joint Researcher.
- Development of Non-Toxic Cu₂ZnSnS₄ (CZTS) Thin Film Solar Cells and Mini Modules Over 15% Conversion Efficiency By Co-Evaporation for Versatile Application, 03-01-02-SF1295, ScienceFund MOSTI, 01/11/2015 - 31/10/2017, RM223136.00, Joint Researcher.
- Pre-commercial Prototype Development of Data Acquisition System for Standalone Photovoltaic Systems with Enhanced Functionalities, PRGS/1/2016/TK04/UKM/01/1, Prototype Development Research Scheme (PRGS), 04/10/2016 - 03/04/2018, RM76000.00, Joint Researcher.

SELECTED RECENT PUBLICATIONS

- I. Yahya, F. Bonaccorso, S. Clowes, A. Ferrari, S. R. P. Silva, Temperature Dependent Separation of Metallic and Semiconducting Carbon Nanotubes Using Gel Agarose Chromatography, Carbon, Accepted under revision April 2015.
- G. Dinesha M. R. Dabera, K. D. G. Imalka Jayawardena, M. R. Ranga Prabath, Iskandar Yahya Et al., 2012, Hybrid Carbon Nanotube Networks as Efficient Hole Extraction Layers for Organic Photovoltaics, ACS Nano, Dec 2012, 7(1), pp 556–565
- I. Yahya, Solution processed post-synthesis separation of carbon nanotubes based on electronic type and post-separation tube defect evaluation, 2015 Collaborative Conference on 3D and Materials Research (CC3DMR), Busan, South Korea, June 2015.
- Noorfazila Kamal, Norhana Arsad, Ashrani A. A. Rahni, Iskandar Yahya, Wan N. W. Ibrahim, Muhd F. A. S. Shaarani, 2016, Journal of Engineering Science and Technology, Students communicate ion skills assessment by external lecturers and industry representatives, Feb 2016, 69-77
- Puvaneswaran Chelvanathan, Yulisa Yusoff, Ameen M Ali, Iskandar Yahya, Norhana Arshad, Mohammad M Alam, Nowshad Amin, Zeid A AlOthman, 2014, International Conference on Electronic Materials and Nanotechnology for Green Environment, Prospects of i-ZnO/ZnS Bi-layer buffer in thin film solar cells.
- Seri Mastura Mustaza, Hafizah Husain, Mohd Hafiz Baharuddin, Iskandar Yahya, 2013, Kongres Pembelajaran dan Pengajaran UKM, 2012, Ketidakkujuran akademik di kalangan pelajar : kajian permulaan mengenai keperluan sistem Honr Code di university.
- Iskandar Yahya, V Stolojan, Steven Clowes, S. M. Mustaza and S.R.P Silva, 2010 International Conference on Semiconductors 2010 Proceedings., Melaka, Malaysia, Carbon Nanotube Field Effect Transistor Measurements in Vacuum.
- A.A. Abd. Rahni, I. Yahya, S.M. Mustaza, 2008, 4th Kuala Lumpur International Conference on Biomedical Engineering, 2d Translation from a 6-DOF MEMS IMU's Orientation for Freehand 3D Ultrasound Scanning
- Seri Mastura Mustaza, Muhd Fauzi Aminuddin Shazi, Aini Hussain, Iskandar Yahya dan Mohd Marzuki Mustafa, 2008, Seminar Pendidikan Kejuruteraan dan Alam Bina, Penandaarasan program akademik untuk tujuan penambahbaikan jaminan kualiti, hlm 230-242.
- Noor Izzri Abdul Wahab, Azah Mohamed, Aini Hussain, 2007, IEEE Student Conference on R & D SCORED 2007, PERMATA, Bangi, A new method of transient stability assessment in power system using LS-SVM.
- Iskandar Yahya, Mohammed Benaissa, Simon Clarke, 2007, The 5th Student Conference on Research and Development, (SCORED 2007), PERMATA, Bangi, Application of Adaptive Filtering and Linear Regression for Determining the Limits of TWaves in Neonatal ECG, p. 356-361.
- A. A. Abd. Rahni & I. Yahya, 2007, Asia-Pacific Conference on Applied Electromagnetics 2007, Obtaining Translation from a 6-DOF MEMS IMU - an Overview, p. 336-340.
- Mohammed E Salem, Azah Mohamed, Salina Abdul Samad, Iskandar Yahaya, 2007, IEEE Student Conference on R & D, SCORED 2007, Software tool for real time power quality disturbance analysis and classification, p. 125-129.

INVITED SPEAKER

- Solution processed post-synthesis separation of carbon nanotubes based on electronic type and post-separation tube defect evaluation, 2015 Collaborative Conference on 3D and Materials Research (CC3DMR), Busan, South Korea, June 2015.
- On the Proposal for Advanced Devices Collaborative Research, 2016 CREST Industry-Academia Forum (Semiconductor), Universiti Kebangsaan Malaysia, April 2016.

INDUSTRY EXPERIENCE

- STMicroelectronics (micro-fabrication and packaging) – Product Engineer (August 2006 – January 2007)
- National Semiconductor – Student project collaboration (2008)