

CURRICULUM VITAE



Associate Professor Dr. Nurul Amziah Md Yunus
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Education

1. Ph.D (Electrical and Electronic Engineering), 2010, Southampton University, United Kingdom
2. M.Sc (Electrical & Electronic Engineering), 2002, Universiti Putra Malaysia, Malaysia
3. B.Eng (Hons) (Electronic Engineering), 1997, University of Leeds, United Kingdom

Areas of Interest

1. Design of Lab-on a-chip, Microfluidic Devices and Systems
2. Microfabrication of Microfluidic Devices and Systems
3. Bio-Nanoelectronics Engineering
4. Microsystems & Sensors
5. Microelectronic Materials, Devices and Systems
6. Cleanroom

Professional Qualification/ Membership/ Affiliation

1. Chair of the IEEE Circuits and Systems Society Malaysia Chapter (CAS) 2015-2016
2. Member, IEEE Circuits and Systems Society (CAS) 2003-present
3. Member, IEEE Electron Devices Society (EDS) 2002-present
4. Member, IEEE Engineering in Medicine and Biology Society (EMBS) 2005-present
5. Member, IEEE Life Sciences, IEEE Sensors Council, IEEE Nanotechnology Council and IEEE Women in Engineering –until present
6. Senior Member of The Institute of Electrical and Electronics Engineers (IEEE)
7. Chartered Engineer (C.Eng) and Member of The Institution of Engineering and Technology (IET)
8. Graduate Member, of Institute of Engineers Malaysia (IEM) and Member of Board of Engineers Malaysia (BEM)
9. Member of Academic Officers Association, PPAUPM, Faculty of Engineering, Universiti Putra Malaysia
10. IEEE CAS Society, Professional Networking in Region 10, Ajou University, Korea; University of Hyderabad and MJCET, India; University of Macau, Macau; Vietnam National University, Hanoi, Vietnam. Representative of the IEEE CASS Malaysia as Recipient of The World Best Chapter Award at APCCAS 2016 Jeju Korea and PrimeAsia2017, Malaysia

Appointments

Position	Duration
1. Associate Professor, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM	June 2017-present
2. Associate Researcher, Halal Products Research Institute (IPPH) Research Group, UPM (Director: Prof. Prof. Dr. Shuhaimi Mustafa)	2017-2019
3. Research Coordinator, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM	2017-2019
4. Associate Researcher, Center of Power and Advanced Energy (CAPER), Faculty of Engineering, UPM (Director: Prof. Dr. Norman Mariun)	2015-2017
5. Associate Researcher, Institute of Advanced Technology (ITMA), UPM (Director: Prof. Dr. Robiah Yunus)	2011-2013
6. Senior Lecturer, Department of Electrical and Electronic	2010-2017

- Engineering, Faculty of Engineering, UPM
7. Lecturer, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM 2003-2010
 8. Industrial Training Coordinator, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM 2003-2005
 9. Testability and Analysis Lab Coordinator, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM 2003-2005
 10. Microelectronics and Nanoelectronics Lab Coordinator, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM 2011-2013, 2015-2017
 11. Advanced Material Synthesis and Fabrication Lab Coordinator, Faculty of Engineering & TNCPI UPM 2013-present
 12. Head of Master Program with Thesis (Microelectronic Engineering), Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM 2015
 13. Tutor, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM 1999-2003
 14. Visiting Researcher, Heriot Watt University, United Kingdom (Mentor: Prof. Gerard Markx) 2012-2013
 15. Visiting Lecturer, Shibaura Institute of Technology, Japan (Leader: Assoc. Prof. Dr. Wan Zuha Wan Hasan) 2018

Publications

Journals (30 recent journals)

1. Abdullah Abdulhameed, **Nurul Amziah Md Yunus**, Izhal Abdul Halin and Mohd Nizar Hamidon, "Simulation of Dielectrophoretic Alignment for Carbon Nanotube on Indium Tin Oxide", Journal of Materials Today: Proceedings, August 2018.
2. Khaldon Mohammed Almadhagi, Izhal Abdul Halin, Nasri Sulaiman and **Nurul Amziah Md Yunus**, "The Effect of Latex Particles on the Edges of the Microelectrode" eProceedings Chemistry Journal, Vol 3, No 1 (2018).
3. Gauri, Samla, Zurina Zainal Abidin, Mohd Firdaus Kamuri, Mohd Adzir Mahdi, and **Nurul Amziah Md Yunus**. "Detection of Aeromonas hydrophila Using Fiber Optic Microchannel Sensor." Journal of Sensors 2017. (SCOPUS)
4. Khaldon Mohammed Almadhagi, **Nurul Amziah Md Yunus**, Mohd Nazim Mohtar and Izhal Abdul Halin "Dielectrophoresis and AC Electroosmosis Force on Fluid Motion in Microfluidic using Latex Particles", Pertanika JST, UPM 2017 (SCOPUS).
5. Bilal I. Abdulrazzaq, Izhal Abdul Halin, Roslina M. Sidek, Suhaidi Shafie, **Nurul Amziah Md Yunus**, Lee Lini, "A programmable CMOS Delay Line for Wide Delay Range Generation and Duty-Cycle Adjustability", Pertanika JST, UPM 2017 (SCOPUS).
6. Ali Ghahraei, **Nurul Amziah Md Yunus**, Nasri Sulaiman and Izhal Abdul Halin "Fuzzy-Controlled Humidity Variation by Silica-gel and Nitrogen gas in an Atmospheric Chamber", Pertanika JST, UPM 2017 (SCOPUS).
7. Sinan Sabah, Nasri Sulaiman, **Nurul Amziah Md Yunus**, Mohd Nizar Hamidon and Nor Hisham Bin Hamid, "Read Operation Performance of Self-Rectifying Memristive Crossbar Arrays", International Journal of Control, Theory and Applications (IJCTA), No.9 (2016) Issue No. 31, pg. 53-61, ISSN: 0974-5572, 2016 (SCOPUS).
8. Mohd Nazim Mohtar, Mohammad Ubaid Ziaudin Ahamed, Faezah Ismail, **Nurul Amziah Md Yunus**, "Effect of Interelectrode Gap to the Manipulations of Particle Using AC Electroosmosis", International Journal of Control, Theory and Applications (IJCTA), No.9 (2016) Issue No. 31, pg. 31-36, ISSN: 0974-5572, 2017 (SCOPUS).
9. **Nurul Amziah Md Yunus**, Nasri Sulaiman, Izhal Abdul Halin and Lee Xin Yi, "Integrated Monitoring and Control System for Lab on a Chip", International Journal of Control, Theory and Applications (IJCTA), No.9 (2016) Issue No. 31, pg. 45-52, ISSN: 0974-5572, 2017 (SCOPUS).
10. Bilal I. Abdulrazzaq, Izhal Abdul Halin, Shoji Kawahito, Roslina M. Sidek, Suhaidi Shafie and **Nurul Amziah Md Yunus**, "A Review On High-Resolution CMOS Delay Lines: Towards Sub-Picosecond Jitter Performance." SpringerPlus 5, no. 1 (2016) (SCOPUS).
11. Bilal I. Abdulrazzaq, Omar J. Ibrahim, Shoji Kawahito, Roslina M. Sidek, Suhaidi Shafie, **Nurul Amziah Md Yunus**, Lini Lee and Izhal Abdul Halin, "Design of a Sub-Picosecond Jitter with Adjustable-Range CMOS Delay-Locked Loop for High-Speed and Low-Power Applications", Sensors Journal, 2016. (IF. 2.437) (Q1) (SCOPUS).
12. **Nurul Amziah Md Yunus** and Nima Khoshirsat, "Numerical Analysis of In₂S₃ Layer Thickness, Band Gap and Doping Density for Effective Performance of CIGS Solar Cell using SCAPS", Journal of Electronic Materials, 2016. (IF. 1.798) (Q2) (SCOPUS)
13. Zaid Hadi, Nasri Sulaiman, Izhal Abdul Halin, **Nurul Amziah Md Yunus** and Hadi K. Mohammed, "Image Processing Techniques to Cope Color Vision Deficiency in Detecting Pork Adulteration in Meatballs Visually" Research Journal of Applied Sciences, Engineering and Technology, 2016; 13(5): 365-374. (IF. 0.47)
14. **Nurul Amziah Md Yunus**, Zurina Zainal Abidin and Izhal Abdul Halin, "Characterization of Angled Microelectrode Array Dielectrophoretic Microfluidic Device", J Bioengineer & Biomedical Sci 6:190. 2016.
15. **Nurul Amziah Md Yunus**, Izhal Abdul Halin, Nasri Sulaiman, Noor Faezah Ismail and Ong Kai Sheng, "Valuation on MEMS Pressure Sensors and Device Applications", World Academy of Science, Engineering and Technology, International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering Vol: 9, No:8, 2015.
16. **Nurul Amziah Md Yunus**, Izhal Abdul Halin, Nasri Sulaiman, Noor Faezah Ismail and Nik Hasniza Nik Aman, "A Compilation of Nanotechnology in Thin Film Solar Cell Devices" World Academy of Science, Engineering and Technology, International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering Vol: 9, No: 8, 2015.
17. **Nurul Amziah Md Yunus**, Nik Hasniza Nik Aman and Nima Khoshirsat, "Comparison between Thin-Film Solar Cells And Copper-Indium-Gallium-Diselenide in Southeast Asia", IET Renewable Power Generation, pp. 1-8 IET Journals, The Institution of Engineering and Technology 2015. (IF: 2.28) (Q3) (SCOPUS)
18. Nima Khoshirsat, **Nurul Amziah Md Yunus**, Mohd Nizar Hamidon, Suhaidi Shafie and Nowshad Amin, "Analysis of Absorber and Buffer Layer Band Gap Grading on CIGS Thin Film Solar Cell Performance Using SCAPS", Pertanika JST, UPM 2015 (SCOPUS).
19. Nima Khoshirsat, Mohd Nizar Hamidon, Suhaidi Shafie, Nowshad Amin and **Nurul Amziah Md Yunus**, "Analysis of Absorber Layer Properties Effect on CIGS Solar Cell Performance using SCAPS", Optik - International Journal for Light and Electron Optics, Elsevier, Vol. 126, Issue 7-8, pg 681-686,

2015. (SCOPUS) (IF: 0.730) (Q3) (SCOPUS)
20. H. Jaafar, K. S. Beh, **N. A. M. Yunus**, W. Z. W. Hasan, S. Shafie and O. Sidek, "A Comprehensive Study on RF MEMS Switch", Journal Article, Microsystems Technology, Springer Berlin Heidelberg. Vol.20 pg 2109-2121. 2014. (IF=0.827) (SCOPUS)
 21. **Nurul Amziah Md Yunus**, Seyed Amin Firouzeh and Zurina Zainal Abidin, "Effect of Applied Voltage on A New Designed Lab on A Chip Electrowetting Actuation System", Journal of Engineering Science and Technology, 2014. (SCOPUS).
 22. **Nurul A Md Yunus**, Hussein Nili and N Green, "Continuous Separation of Colloidal Particles using Dielectrophoresis", ELECTROPHORESIS, April 2013. (IF: 3.303) (Q1) (SCOPUS)
 23. Kaveh Mazloomi, Nasri Sulaiman, Siti Anom Ahmad and **Nurul Amziah Md Yunus**, "Analysis of the Frequency Response of a Water Electrolysis cell", International Journal of Electrochemical Science; Mar 2013, Vol. 8 Issue 3, p3731. (IF: 3.729) (Q3) (SCOPUS)
 24. **Nurul Amziah Md Yunus**, Haslina Jaafar, Izhal Abdul Halin and Nicolas G. Green, "Microfluidic Systems For Dielectrophoretic Separation of Fluorescent Particles", ASM Science Journal, ASM Sci. J., 8(1), 29–35, June 2013. (SCOPUS).
 25. Farideh Abhari, Haslina Jaafar and **Nurul Amziah Md Yunus**, "A Comprehensive Study of Micropumps Technologies", Int. J. Electrochem. Sci., 7 (2012) 9765 – 9780. (IF: 3.729) (Q3) (SCOPUS)
 26. **Nurul Amziah Md Yunus**, Haslina Jaafar and Jasronita Jasni, "The Gradient of the Magnitude Electric Field Squared on Angled Microelectrode Array for Dielectrophoresis Applications", Journal of the Japan Society of Applied Electromagnetics and Mechanics (JSAEM), Vol.19 Supplement, Autumn 2011.
 27. Jasronita Jasni and **Nurul Amziah Md Yunus**, "Evaluation of High Temperature Superconducting Material for Transformer", Journal of the Japan Society of Applied Electromagnetics and Mechanics (JSAEM), Vol.19 Supplement, Autumn 2011.
 28. **Nurul A Md Yunus** and N Green "Fabrication of Microfluidic Device Channel Using a photopolymer for Colloidal Particle Separation" Microsystems Technologies Journal, 2010. (IF: 1.069) (Q3) (SCOPUS)
 29. **Nurul Amziah Md Yunus** and Nicolas G. Green, "Advantages and Limitations in Lab on a Chip Devices Fabrication And Production For Biomedical Applications", International Journal of Engineering and Technology (IJET) Volume No. 9, 2012, Issue 2. (SCOPUS).
 30. Mohd. Liakot Ali, Rafiqul Islam, A. Siti Anom, and **M.Y. Nurul Amziah**, "GUI for PC Auto Shut-Down", Technical Communication, International Journal of Computers & Electrical Engineering, Elsevier Science. Computers Electrical Engineering, Volume 34, Issue 3, May 2008, Pages 257-262. (IF: 0.733) (Q3) (SCOPUS)

Conference Proceedings (30 recent Conference Proceedings)

1. Abdullah Abdulhameed, **Nurul Amziah Md Yunus**, Izhal Abdul Halin and Mohd Nizar Hamidon, "Simulation of Dielectrophoretic Alignment for Carbon Nanotube on Indium Tin Oxide", NANOTECH MALAYSIA 2018, May 7-8, 2018, Universiti Teknologi Malaysia, Kuala Lumpur, MALAYSIA.
2. **Nurul Amziah Md Yunus**, Dielectrophoresis and Electrowetting, Symposium of Electrical And Electronic Research Program, Shibaura Institute of Technology, Japan 21-28 January 2018.
3. Noor Faezah Ismail, **Nurul Amziah Md Yunus**, Nasri Sulaiman, Mohd Nazim Mohtar, Izhal Abdul Halin and Desa Ahmad, "Joule Heating Effect on Microdroplet Electrowetting Platform Chip", 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), Kuala Lumpur, 31st Oct -2 Nov 2017. (SCOPUS)
4. Suhaidi bin Shafie, **Nurul Amziah Md Yunus**, Ong Wei Chiek, Wang Chee Yew and Izhal Abdul Halin, "Analog Signal Path Circuit for a Four Transistor Pixel in Standard 0.13 μ m CMOS Technology", 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), Kuala Lumpur, 31st Oct -2 Nov 2017. (SCOPUS)
5. Chua Kean Hong, Noor Faezah Ismail and **Nurul Amziah Md Yunus**, Desa Ahmad, "Sensitivity of Piezoresistive Pressure Sensor with Inner Diaphragm", 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), Kuala Lumpur, 31st Oct -2 Nov 2017. (SCOPUS)
6. **Nurul Amziah Md Yunus**, Noor Faezah Ismail, Nicolas G. Green and Desa Ahmad, "Analysis of Dielectrophoresis AC Electrokinetic in Equilibrium using Matlab", 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), Kuala Lumpur, 31st Oct -2 Nov 2017. (SCOPUS)
7. Noor Faezah Ismail, **Nurul Amziah Md Yunus**, Nasri Sulaiman, Nazim Mohd Mohtar and Desa Ahmad² "Microdroplet Electrowetting Actuation on Flexible Paper-Based Platform Chip", Symposium on Advanced Materials and Nanotechnology (SAMN 2017), 18th -19th July 2017, Bangi-Putrajaya Hotel, Selangor, Malaysia.
8. Noor Faezah Ismail, **Nurul Amziah Md Yunus**, Nasri Sulaiman and Izhal Abdul Halin, "Flexible Microfluidic Transportation Platform using Pencil-Based Electrode with Electrowetting Technique", 4th International Symposium on Applied Engineering and Sciences (SAES2016), Kyutech, Japan. 17th – 18th Dec. 2016.
9. Hadi, Zaid, Nasri Sulaiman, Izhal Abdul Halin, and **Nurul Amziah Md Yunus**, "Implementation of Image Enhancement Techniques Based on Intel Edison Platform." In ICITISEE 2016, 2016 International Conference on Information Technology, Information Systems and Electrical Engineering, pp. 17-20. 2016.
10. M.N. Mohtar, M.M. Ramli, **N.A.M. Yunus**, J. Jasni and N. Aziz, "Clarification of Colloidal Particles in Lake and River Water Using AC Electrokinetic", MATEC Web of Conferences 78, 01115 October (2016) (SCOPUS)
11. Khaldon Mohammed Almhadagi, Izhal Abdul Halin, Nasri Sulaiman and **Nurul Amziah Md Yunus**, "The Effect of Latex Particles on the Edges of the Microelectrode" NanoMITE Annual Symposium 2016 (NMAS 2016) 28th September 2016. (SCOPUS).
12. Khaldon Mohammed Almhadagi and **Nurul Amziah Md Yunus**, "Dielectrophoresis and AC Electroosmosis Force on Fluid Motion in Microfluidic using Latex Particles", International Conference on Electrical & Electronic Technology 2016, UPM 2016 (SCOPUS).
13. Mohd Nazim Mohtar, Mohammad Ubaid Ziauddin Ahamed, Faezah Ismail, **Nurul Amziah Md Yunus**, "Effect of Interelectrode Gap to the Manipulations of Particle Using AC Electroosmosis", International Conference on Electrical & Electronic Technology 2016, UPM 2016 (SCOPUS).
14. Sinan Sabah, Nasri Sulaiman, **Nurul Amziah Md Yunus**, Mohd Nizar Hamidon and Nor Hisham Bin Hamid, "Read Operation Performance of Self-Rectifying Memristive Crossbar Arrays", International Conference on Electrical & Electronic Technology 2016, UPM 2016 (SCOPUS).
15. Bilal I. Abdulrazzaq, Izhal Abdul Halin, Roslina M. Sidek, Suhaidi Shafie, **Nurul Amziah Md Yunus**, Lee Lini, "A programmable CMOS Delay Line for Wide Delay Range Generation and Duty-Cycle Adjustability", International Conference on Electrical & Electronic Technology 2016, UPM 2016 (SCOPUS).
16. Ali Ghahraei, **Nurul Amziah Md Yunus**, Nasri Sulaiman and Izhal Abdul Halin "Fuzzy-Controlled Humidity Variation by Silica-gel and Nitrogen gas in an Atmospheric Chamber", International Conference on Electrical & Electronic Technology 2016, UPM 2016 (SCOPUS).
17. **Nurul Amziah Md Yunus**, Nasri Sulaiman, Izhal Abdul Halin and Lee Xin Yi, "Integrated Monitoring and Control System for Lab on a Chip", International Conference on Electrical & Electronic Technology 2016, UPM 2016 (SCOPUS).

18. **Nurul Amziah Md Yunus**, Nasri Sulaiman and Noor Faezah Ismail, "Drop Impact Testing For Pb-Free Alloy On IC Packaging", 2nd International Symposium on Applied Engineering and Sciences (SAES2015), Universiti Putra Malaysia. 23rd – 24th Dec. 2015.
19. Bilal I. Abdulrazzaq, Roslina M. Sidek, Suhaidi Shafie, **Nurul Amziah Md Yunus**, Shoji Kawahito and Izhal Abdul Halin, "Sub-Picosecond Jitter Resolution Wide Range Digital Delay Line for SoC Integration", 2015 IEEE International Circuits and Systems Symposium (ICSS2015), Langkawi, Malaysia. 2nd-4th September 2015. (SCOPUS).
20. Firdaus Kamuri, Zurina Zainal Abidin, Suryani Kamarudin, Siti Zalikha Zhukhi, **Nurul Amziah Md Yunus**, Mohd Nizar Hamidon, Mohd Hanif Yaacob, "Optimization on The Preparation of Microfluidic Channel Using Dry Film Resist", The 2015 International Conference on Smart Sensors and Application (ICSSA), Kuala Lumpur Malaysia. 26th-28th May 2015. (SCOPUS).
21. **Nurul Amziah Md Yunus**, Izhal Abdul Halin, Nasri Sulaiman and Loke Chi Chung, "Graphene Sensor And Device Application", The International Conference on Electrical and Electronic Engineering, Telecommunication Engineering, and Mechatronics (EEETEM2015), Kuala Lumpur, Malaysia. September 8-10, 2015. (Accepted)
22. Noor Faezah Ismail, Seyed Amin Firouzeh, Nasri Sulaiman, Izhal Abdul Halin and **Nurul Amziah Md Yunus**, "A Survey on Design of Microelectrodes for Microdroplet Motion Based on Electrowetting", The International Conference on Electrical and Electronic Engineering, Telecommunication Engineering, and Mechatronics (EEETEM2015), Kuala Lumpur, Malaysia. September 8-10, 2015. (Accepted)
23. **Nurul Amziah Md Yunus**, Izhal Abdul Halin, Nasri Sulaiman, Noor Faezah Ismail and Ong Kai Sheng, "Valuation on MEMS Pressure Sensors and Device Applications", 17th International Conference on MEMS, Nano and Smart Systems (ICMNSS 2015), Kuala Lumpur, Malaysia. 24-25th August 2015.
24. **Nurul Amziah Md Yunus**, Izhal Abdul Halin, Nasri Sulaiman, Noor Faezah Ismail and Nik Hasniza Nik Aman, "A Compilation of Nanotechnology in Thin Film Solar Cell Devices" 17th International Conference on MEMS, Nano and Smart Systems (ICMNSS 2015), Kuala Lumpur, Malaysia. 24-25th August 2015.
25. **Nurul Amziah Md Yunus**, Zurina Zainal Abidin and Izhal Abdul Halin, "Dielectrophoretic Characterization of Colloidal Particles Using Angled Microelectrode Arrays", the 6th International Conference on Fluid Mechanics and Heat & Mass Transfer (FLUIDSHEAT '15), Kuala Lumpur, Malaysia, April 23-25, 2015.
26. **Nurul Amziah Md Yunus**, Izhal Abdul Halin, Zurina Zainal Abidin and Nicolas G. Green, "Steady State Dielectrophoresis AC Electrokinetic Analysis", 2nd International Symposium on Applied Engineering and Sciences (SAES2014), Kyushu Institute of Technology, Japan. 20th – 21th Dec. 2014
27. Tan Seaw Wei, Noor'Ain Kamsani, Nasri Sulaiman and **Nurul Amziah Md Yunus**, "Dual Control Direct Digital Synthesizer", International Conference on Engineering Technology and Technopreneurship, Berjaya Times Square, Kuala Lumpur. 27-29 August 2014. (SCOPUS).
28. **Nurul Amziah Md Yunus**, Haslina Jaafar, Izhal Abdul Halin and Jasronita Jasni, "The Demand Model of Electric Field Strength on Microelectrode Designed for AC Electrokinetic Applications", The 9th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE-NEMS 2014), Hawaii, USA. 13th -16th April 2014. (SCOPUS).
29. Chin Yong Huan, Haslina Jaafar and **Nurul Amziah Md Yunus**, "Design and Analysis of Capacitive Comb Acceleration Sensor for Automotive Applications", The Second International Conference on Technological Advances in Electrical, Electronics and Computer Engineering (TAECE2014), Kuala Lumpur, Malaysia. 18th-20th March 2014.
30. Chin Yong Huan, Haslina Jaafar and **Nurul Amziah Md Yunus**, "Classification on MEMS Accelerometer and Device Application", The Second International Conference on Technological Advances in Electrical, Electronics and Computer Engineering (TAECE2014), Kuala Lumpur, Malaysia. 18th-20th March 2014.

Research Grants

No.	Project Title	Amount (RM)	Year	Source of Fund
1.	Piezoelectric Lab On A chip Design and Fabrication For DNA Detection (Leader)	130,000	2017-2019	GP-IPB
2.	Nanotechnology in Detection and Control of Ganoderma Boninense. Subproject: Application of the nanodelivery system and nanosensor in smart farming for actual detection and control of <i>Ganoderma Boninense</i> (co-Researcher)	~1 million	2015-2020	LRGS/2015/UKM-UPM/NanoMITe
3.	Carbon Based Nano Electro-Mechanical Systems Sensors and Devices. Subproject: Carbon Based Ultra-Conductor (co-Researcher)	~1 million	2015-2020	LRGS/2015/UKM-UPM/NanoMITe/04/02

Awards/Recognition (Current)

No.	Name of awards	Title	Award Authority	Award Type	Year
1.	Bronze Medal	Researcher	16th International Invention Innovation Industrial Design & Technology Exhibition 2005 (16 th ITEX)	Exhibition Award-RF Coaxial Resonant Cavity for CNG Ignition	19-21 May 2005
2.	Service Excellence Award	Service Lectureship/Researcher	Universiti Putra Malaysia	Excellence Service Award	15 th May 2014
3.	Gold Medal	Supervisor	INNOFEST2014	Undergraduate Project Student: Tan Seaw Wei	18 th May 2014
4.	IEEE CAS Innovation Award	Supervisor	IEEE Circuits and Systems Society Malaysia Chapter	Student: Lee Xin Yi	28 th October 2015
5.	IEEE CAS Student Design Competition Region 10	Supervisor	IEEE Circuits and Systems Society Student Design Competition	Student: Nazri Khamis	5th March 2017
6.	Regional Level Participation	Supervisor	IEEE Circuits and Systems Society Student Design Competition	IEEE CAS Student Design Competition Region 10 Student: Ng Wei Choon	Sept 2017 – April 2018
7.	Chapter Level Participation	Supervisor	IEEE Circuits and Systems Society Student Design Competition	IEEE CAS Student Design Competition Region 10 Student: Muhammad Arif Zainudin	Sept 2017 – March 2018
8.	Gold Medal	Supervisor	Faculty of Engineering Universiti Putra Malaysia	2018 FYP Exhibition Award Student: Ng Wei Choon	28 th May 2018
9.	Silver Medal	Supervisor	Faculty of Engineering Universiti Putra Malaysia	2018 FYP Exhibition Award Student: Muhammad Arif Zainudin	28 th May 2018

Professional Services/Consultation					
No.	Name of Professional Services/ Consultation	Name of Project/Program	Sponsor	Year	Status
1.	MIMOS (The committee member of MEMS/NEMS in Malaysia)	a) Microfluidics Software b) Bioelectronics Engineering c) Chemical Engineering	MIMOS	2010	Completed
2.	International Medical University Malaysia (IMU)	Electrophoresis Device	IMU	2010	Completed
3.	Institut Penyelidikan Produk Halal	Halal Scanner, Halal Detector and Halal Machine	-	2014	Completed
4.	Institut Penyelidikan Produk Halal	Universiti Putra Malaysia (UPM) dengan Kuwait Institute For Scientific Research (KISR) dan Islamic Development Bank (IDB)	-	2015	Completed
5.	Institut Penyelidikan Produk Halal	Microfluidic Lab on a Chip	-	2015	On-going
6.	AS Engineering	Fountain/LED components	UPM/AS Engineering	2015-present	On-going
7.	One Database Sdn. Bhd.	Kajian dan Penetapan Frekuensi HF Radio Berkuasa Tinggi	UPM/One Database Sdn Bhd	2015-present	Completed
8.	Technical Program Committee/ Reviewer	ICEECC2016, ENVICET'2016, ICACCI-2016, IEEE-ICSE2016, ICED 2016, ICIAS2016, ACCS 2015, ISCAS2015, ADMMET'2015, SCOReD 2015, ICBAPS2015, IEEE SCOReD 2014, IECBES 2014, IEEE-ICSE2014, IEEE-RSM2013, ICCAS 2013, AVCDCT13, IECBES 2012, TENCON 2012, IEEE-ICSE2012, ICCAS2012, ICIAS2012, IEEE SCOReD, APCCAS 2010, APSAEM2010, ICED2016,		Since 2003	On-going



ICEETech2016,
 ICIAS2016, ICM2016,
 IMESS2016, ISCAS2016,
 ISCAS2018 etc.

9.	General Chair	PrimeAsia2017 and WiCAS2015	IEEE Circuits and Systems Society	2015 & 2017	Completed
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Professional Services (Organizing Chair)

No.	Event	Year
1.	The IEEE CASS High-Tea Event 2014	2014
2.	IEEE CAS (M) Innovative Award 2014	2014
3.	IEEE CAS (M) Master Dissertation Award 2014	2014
4.	IEEE CAS (M) Doctoral Dissertation Award 2014	2014
5.	Undergraduate Final Year Project Competition (Track 3: Electronics) 2014	2014
6.	The IEEE CASS High-Tea Event 2015	2015
7.	Women in Circuits and Systems (WiCAS2015) Granted \$9000	2015
8.	IEEE CAS (M) Innovative Award 2015	2015
9.	IEEE CAS (M) Master Dissertation Award 2015	2015
10.	IEEE CAS (M) Doctoral Dissertation Award 2015	2015
11.	Special Tutorial on "Video Compression: Techniques, Standards, and Trends"	2015
12.	Young Female Leader Professional Development Award 2015	2015
13.	Young Female Professional/Postgraduate Student Travel Award 2015	2015
14.	Undergraduate Final Year Project Competition (Track 3: Electronics) 2015	2015
15.	2015 IEEE Malaysia Final Year Project (FYP) Competition	2015
16.	Higher Education Student Project Exhibition Day, UTP	2015
17.	DLP What's Next on Video Coding Technologies and Standards? By Prof Hsueh-Ming Hang	2015
18.	Tutorial What's Next on Video Coding Technologies and Standards? By Prof Hsueh-Ming Hang	2015
19.	Publish and Flourish: The Way Forward by Prof. Dr. Mohd Adzir Mahdi, UPM	2015
20.	Visit to IEEE CAS Shikoku Japan – Granted \$1000	2015
21.	Visit to IEEE CAS Taipei Taiwan – Granted \$1000	2015
22.	Staff visit to IEEE CAS Shikoku, Japan Granted	2015
23.	Staff visit to IEEE CAS Taipei Taiwan	2015
24.	Student visit to IEEE CAS Shikoku, Japan	2015
25.	Student visit to IEEE CAS Taipei Taiwan	2015
26.	Staff visit to IEEE CAS Japan Section and Chiba University	2015
27.	Invited speaker Prof Dr Hiroo Sekiya from Chiba University, Japan entitled Analysis and Design of High Frequency High Efficiency WPT Systems at UTP	2015
28.	Invited speaker Dr Mazlan Abbas, the CEO from REDtone IoT entitled IoT Smart City and Smart Citizens at UTP	2015
29.	Invited speaker Prof Dr Ku Zilati Ku Shaari, Head of CSIMAL, UTP entitled Enhancing Students' Experience Through Mobility Program at UTP	2015
30.	The IEEE CASS High-Tea Event 2016	2016
31.	IEEE CAS (M) Innovative Award 2016	2016
32.	IEEE CAS (M) Master Dissertation Award 2016	2016
33.	IEEE CAS (M) Doctoral Dissertation Award 2016	2016
34.	Higher Education Student Project Exhibition Day, USM	2016
35.	Undergraduate Final Year Project Competition (Track 3: Electronics) 2016	2016
36.	2016 IEEE CAS Malaysia Chapter Networking High Tea	2016
37.	Invited speaker Mr. Kamarul Zaman Abdul Rashid from Intel Malaysia on Moving Forward with Internet of Things with UX Centered Software as a Service (SaaS) at SAINS@USM	2016
38.	Invited speaker Prof. Dr. Massimo Alioto from National University of Singapore on Rethinking "Things" Design-The Missing (Technology) Link in the Internet of Things" at SAINS@USM	2016



39.	Invited speaker and Assoc. Prof. Dr. Asrulnizam Abd Manaf from CEDEC USM on Internet of Things: Opportunities and Challenges for Next-Generation sensor Technology at SAINS@USM	2016
40.	Technical talk by Assoc. Professor Harikrishnan Ramiah from Universiti Malaya on Empowering Nanoscale CMOS Technology with Emphasis on Analog/RF at Segi University, Kuala Lumpur.	2016
41.	Technical talk by Assoc. Professor Harikrishnan Ramiah from Universiti Malaya on Empowering Nanoscale CMOS Technology with Emphasis on Analog/RF at MMU University, Kuala Lumpur.	2016
42.	Technical talk by Dr Fakhru Zaman Rokhani from UPM on Network on Chip at MMU University, Kuala Lumpur.	2016
43.	Technical talk by Dr Nizam Tamchek from UPM on Introduction to Solvents at UPM, Kuala Lumpur.	2016
44.	Technical talk by Mohd Izhwan Muhamad from UPM on Cleanroom Safety and Hazard at UPM, Kuala Lumpur.	2016
45.	Technical talk by Nurnazeera Zulkefli from UPM on Introduction to Wire Bonder at UPM, Kuala Lumpur.	2016
46.	Technical talk by Dr Nizam Tamchek from UPM on Introduction to Stuff in The Cleanroom at UPM, Kuala Lumpur.	2016
47.	Technical talks by Dr Alan Harvey from RMIT University Australia on at UPM, Kuala Lumpur.	2016
48.	The 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia2017)	2017
49.	Women in Circuits and Systems (WiCAS2017) Granted \$4000	2017
50.	2016-2017 Student Design Competition Granted \$500	2016-2017
51.	2017-2018 Student Design Competition Granted \$500	2017-2018

Student Supervision

Ph.D (Supervisor)

No.	Name	Title	Status
1.	Khaldon Almadhagi (GS29901)	Modelling And Dielectrophoresis Of Silica	Ongoing
2.	Abdullah Abdulhameed Gumaan (GS50667)	Alignment Of Carbon Nanotube Based On Dielectrophoresis	Ongoing

Ph.D (Co-Supervisor)

No.	Name	Title	Status
1.	Firdaus Kamuri (GS35179)	Pulse Field Dielectrophoretic Field-Flow Fractionation Separation Combined With Optical Detection For Biological Application	Submitted
2.	Bilal Essam (GS44945)	Design Of A Wide-Range CMOS Digital Delay Line With Sub-Picosecond Jitter For Image Sensor Applications	Graduated
3.	Sinan Sabah Mahmood (GS38414)	Design And Analysis Of Sneak Path Current Free Nanoscale Crossbar Array Structures Based On Self-Rectifying Memristor Model For Memory Applications	Graduated

M.Sc. (Supervisor)

No.	Name	Title	Status
1.	Noor Faezah Binti Ismail (GS42673)	Droplet Electrowetting	Thesis Submitted
2.	Masoumeh Asgharighajari (GS44945)	Impedance Based Microfluidic Flow And Speed Sensor	Thesis Submitted
3.	Ali Ghahraei (GS32384)	Atmospheric Chamber To Study The Effects Of Ambient Parameters On The Efficiency Of Solar Cells	Graduated

4.	Nima Khoshirat (GS31188)	Efficiency Enhancement Of Copper Indium Gallium di-Selenide Thin Film Solar Cell Using Optimized Material Properties	Graduated
5.	Farideh Abhari (GS28292)	Distinctive Analysis of Fluid Flow Behavior of AC Electroosmotic Micropump	Graduated

M.Sc. (Co-Supervisor)

No.	Name	Title	Status
1.	Zaid Ali Abbas (GS35867)	FPGA	Thesis Submitted
2.	Ike Chidiebere Somadina (GS39642)	FPGA	Ongoing
3.	Nur Izzah binti Azmi (GS41651)	Biosensor	Ongoing

Supervisor (Graduated Student)

No.	Program	Category	Matric No.	Name	Senate Date
1.	PhD	Member	GS39251	Sinan Sabah Mahmood	17/05/2018
2.	Master	Chairman	GS28292	Farideh Abhari	15/08/2013
3.	Master	Chairman	GS31188	Nima Khoshirat	14/08/2014
4.	Master	Chairman	GS32384	Ali Ghahraei	12/03/2015
5.	Master	Member	GS27082	A.Syed Abdul Bari	17/11/2016
6.	Master	Member	GS32991	Lalitha.S	12/05/2016
7.	Master	Member	GS35288	Mujahid Iqbal	17/11/2016
8.	Master	Member	GS26369	Seyedkaveh Mazloomi	11/07/2013
9.	Master	Member	GS12118	Norhafidzah binti Mohd Saad	10/08/2006
10.	Master	Member	GS35858	Mohammed Kassim Ahmed	12/11/2015
11.	Master	Member	GS38873	Zaid Hadi Khudhair	17/11/2016
12.	Master	Member	GS35873	Samla Gauri a/p Balakrishnan	10/09/2015

Examiner (Graduated Student)

No.	Program	Category	Matric No.	Name	Senate Date
1.	Master	Chairman	GS26215	Nor Hadzfizah binti Mohd Radi	14/05/2015
2.	Master	Chairman	GS36373	Umi Kalsom bt Mohamad Yusof	09/06/2016
3.	Master	Chairman	GS32482	Mohammad Kazem Chamran	12/02/2015
4.	Master	Chairman	GS32637	Farshad Azadian	09/10/2014
5.	Master	Chairman	GS41846	Haneen Jawad M. El-Hamad	09/03/2017
6.	Master	Member	GS21637	Amir Sharifian	10/12/2015
7.	Master	Member	GS22143	Nor Azura bt Zakaria	12/12/2013
8.	Master	Member	GS33591	Aishah binti Fauthan	08/10/2015
9.	Master	Member	GS34724	Arash Abbasi	13/08/2015
10.	Master	Member	GS41241	Hussein Mohammed Barakat	09/03/2017
11.	Master	Member	GS37251	Alaa Hadi Mohammed Musa	12/03/2015
12.	Master	Member	GS23331	Fadhila Hasanah binti Ahmad Nadzri	20/03/2014
13.	Master	Member	GS31293	Sarah Rezaeian	12/11/2015
14.	Master	Member	GS10629	Muhammad Nazir bin Mohammed Khalid	10/08/2006
15.	Master	Member	GS29294	Sara Razavi	11/09/2014
16.	Master	Member	GS31959	Aminmohammad Saberian	20/03/2014
17.	Master	Member	GS32994	Rasoul Garmabdari	14/08/2014



Professional Networking

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<i>Academia</i>	https://upm.academia.edu/NurulAmziahMdYunus
<i>Google Scholar</i>	https://scholar.google.com/citations?user=wEjKeIUAAAAJ&hl=en
<i>Website url</i>	http://profile.upm.edu.my/amziah

