

## CURRICULUM VITAE



Dr. Noor Ain Kamsani  
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Department of Electrical & Electronic Engineering,  
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### Education

1. 2011, Ph.D, Electronic Engineering, 2011, University of Glasgow, UK.
2. 2006, B.Eng, Electrical & Electronic Engineering, 2006, Universiti Tenaga Nasional.

### Areas of Interest

1. IC Design & Validation, Semiconductor Device Compact Modeling, Machine Learning

### Professional Qualification/ Membership/ Affiliation

1. Affiliate Member, Young Scientist Network - Academy Science Malaysia (YSN-ASM)
2. Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
3. Senior Member, IEEE Circuits and Systems Society
4. Senior Member, IEEE Solid States and Systems Society
5. Senior Member, IEEE Electron Devices Society
6. Senior Member, Women in Engineering Affinity Group
7. Graduate Member, Board of Engineers Malaysia (BEM)
8. Member, Engineering Education Interest Group, Faculty of Engineering, UPM
9. Member of Academy of Sciences Malaysia Special Interest Group on Machine Learning
10. Member of YSN-ASM Science Policy Working Group
11. Technical Committee, Survey Environmental Scan for The Human Capital Issues Within the Electrical and Electronics Sector, *Industry Talent Management & Expatriate Division, MIDA*

### Appointment

Position	Duration
1. MOOC Content Developer, Universiti Putra Malaysia	March 2018 to date
2. Alumni Coordinator, Department of Electrical & Electronic Engineering, Faculty of Engineering, UPM	March 2018 to date
3. Honorary Secretary, IEEE Malaysia Section	January 2018 to date
4. Editorial Board of Journal of Applied Technology and Innovation	March 2017 to date
5. Program Manager, Texas Instruments – Universiti Putra Malaysia Program	December 2012 to date
6. Senior Lecturer, Department of Electrical & Electronic Engineering, Faculty of Engineering, UPM	June 2011 to date
7. Student Club Advisor, IEEE Student Branch Universiti Putra Malaysia	September 2013 to March 2018
8. HEPA Coordinator, Department of Electrical & Electronic Engineering, Faculty of Engineering, UPM	September 2013 to March 2018
9. Student Activities Project Coordinator, IEEE Region 10 (Asia Pacific)	January 2017 – March 2018
10. Chair of Student Activities, IEEE Malaysia Section	January 2017 – January 2018
11. Honorary Secretary, IEEE Circuits & Systems Society, Malaysia Chapter	January 2013 – January 2017
12. Research Fellow at Center For Advanced Power & Energy Research (CAPER), UPM	June 2015 to Jun 2017
13. Executive Committee, 'AJK Multimedia dan ICT Fakulti Kejuruteraan'	September 2012 – August 2014

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|---|-----------------------------|
| 14. Research Student, Device Modeling Group, University of Glasgow                        | July 2007 – April 2011      |
| 15. Tutor, Department of Electrical & Electronic Engineering, Faculty of Engineering, UPM | January 2007 – June 2011    |
| 16. Resident Fellow, Kolej Sultan Alaeddin Suleiman Shah (KOSASS), UPM                    | April 2007 – June 2007      |
| 17. Design Engineer, Penang Design Center, Intel Technology (M) Sdn Bhd                   | January 2006 – January 2007 |

### Publication

#### Journal

1. F. Z. Rokhani, M. T. Abdul Rahman, **N. A. Kamsani**, M. I. Saripan, K. Samsudin, M. K. Hassan, "ASIL Determination For Motorbike's Electronic Throttle Control System (ETCS) Multifunction" *European Physical Journal - Web Conference*, vol. 162, Aug 2017, pp. 1-5, ISSN 2101-6275.  
(Indexed in Scopus)
2. A. A. Mohammed, I. Aris, M. K. Hassan, **N. A. Kamsani**, "New Algorithm For Autonomous Dynamic Path Planning in Real-Time Intelligent Robot Car" *Journal of Computational and Theoretical Nanoscience*, vol. 14(11), Nov 2017, pp. 5499-5507, ISSN1546-1955.  
(Indexed in Scopus)
3. V. Thangasamy, **N.A. Kamsani**, M. N. Hamidon, S. J. Hashim, "RF CMOS Switch Design Methodologies for Multiband Transceiver Applications", *Pertanika Journal of Science and Technology*, vol 25 (S), Feb 2017, pp. 29-36, ISSN 0128-7680.  
(Indexed in Scopus)
4. V. Thangasamy, **N.A. Kamsani**, M. N. Hamidon, S. J. Hashim, Z. Yusoff, M. F. Bukhori "Digital-Controlled Multimode Multiband Power Amplifier With Multiple Gated Transistor" *IETE Technical Review*, vol. 34, issue 1, Jan 2017, pp. 48 - 57, ISSN 0256-4602.  
(Impact Factor : 1.304)
5. M. A. Nazir, **N. A. Kamsani**, N. Azis, M. A. M. Radzi, W. Z. W. Hasan, "Integration of Ultra-Capacitor And Battery As Hybrid Energy Storage With Intelligent Controller For Efficient Electric Vehicle Application" *International Journal of Control Theory and Applications*, vol. 9, no. 5, pp. 345-355, April 2016, ISSN 0974-5572.  
(Indexed in Scopus)
6. V. Thangasamy, **N.A. Kamsani**, M. N. Hamidon, S. J. Hashim, Z. Yusoff, M. F. Bukhori "A Multiband CMOS RF Power Amplifier with Double Secondary Transformer Matching" *International Journal of Applied Engineering Research*, vol. 10, issue 24, Dec 2015, pp. 44341-44346, ISSN 1349-2543.  
(Indexed in Scopus)
7. V. Thangasamy, **N.A. Kamsani**, M. N. Hamidon, S. J. Hashim, Z. Yusoff, M. F. Bukhori "Low Power 18T Pass Transistor Logic Ripple Carry Adder" *IEICE Electronics Express*, vol. 12, issue 16, Mar 2015, pp. 20150176, ISSN 1349-2543.  
(Impact Factor : 0.391)
8. A. H. Shah, S. Begum, V. Thangasamy, **N. A. Kamsani**, "Enhanced Ultrawideband (UWB) Micro-Strip On-Body Wearable Antenna," *ARPJ Journal of Engineering and Applied Sciences*, vol. 9, no. 9, Sept 2014, pp. 1535-1539, ISSN 1819-6608.  
(Indexed in Scopus)
9. M. R. Shokrani, M. Khoddam, M. N. Hamidon, **N. A. Kamsani**, F. Z. Rokhani, S. Shafie "An RF Energy Harvester System Using UHF Micro-power CMOS Rectifier based on a Diode Connected CMOS Transistor" *The Scientific World Journal*, vol. 2014, Mar 2014, pp. 1-11, DOI:10.1155/2014/963709.  
(Impact Factor : 1.730)

10. V. Thangasamy, **N. A. Kamsani**, M. N. Hamidon, N. Sulaiman, M. F. Bukhori, "Q and Frequency Tunable Second Order LC Bandpass Filter for Long Term Evolution (LTE) Receiver," *Mitteilungen Klosterneuburg Journal*, vol. 64, issue 3, Mar 2014, pp. 234-245, ISSN 0007-5922.  
(Impact Factor : 0.106)
11. V. Thangasamy, **N. A. Kamsani**, M. N. Hamidon, M. F. Bukhori, "An Overview of RF Power Amplifier Techniques and Effect of Transistor Scaling on Its Design Parameters," *International Journal of Applied Engineering Research*, vol. 9, issue 2, Jan 2014, pp. 257-276, ISSN 0973-4562.  
(Indexed in Scopus)
12. M. F. Bukhori, **N. A. Kamsani**, S. Roy, A. Asenov, "Accurate Capturing of the Statistical Aspect of NBTI/PBTI Variability Into Statistical Compact Models," *Microelectronics Journal*, vol. 43, issue 11, Nov 2012, pp. 793-801, ISSN 0026-2692.  
(Impact Factor : 0.919)

### Conference Proceeding

1. M. K. Zulkalnain, **N. A. Kamsani**, R. M. Sidek, S. J. Hashim, F. Z. Rokhani, M. N. Hamidon, "A - 81dB PSRR, Regulated Cascode Fully MOS Bandgap Reference for Power Management in RFEH Systems", *accepted in 4th International Conference On Electronic Design 2018 (ICED2018)*
2. K. C. Yeoh, M. F. Rahmat, F. A. Rahman, **N. A Kamsani**, F. Z. Rokhani, "Hardware Software Partitioning of Crankshaft Function in Engine Control Units Using FPGA-Based Testing", in 2017 15th IEEE Student Conference On Research and Development (SCORed2017), pp. 103-108, 13-14 Dec 2017, Kuala Lumpur, Malaysia.
3. N. A. Latip, **N. A Kamsani**, Y. T. Lee, F. Z. Rokhani, R. M. Sidek, "Evaluation of Optimum Scan Chain Parameters with Respect to Its Power Performance in Design-for-Testability (DFT) of Integrated Circuit", in 2017 15th IEEE Student Conference On Research and Development (SCORed2017), pp. 99-102, 13-14 Dec 2017, Kuala Lumpur, Malaysia.
4. A. Mohammed, **N. A. Kamsani**, "Automatic Accident Detector and Reporting System (Hardware and Software) ECBA Medical System", in 2017 15th IEEE Student Conference On Research and Development (SCORed2017), pp. 34-37, 13-14 Dec 2017, Kuala Lumpur, Malaysia.
5. S. H. Lim, Y. W. Lim, **N. A. Kamsani**, R. M. Sidek, S. J. Hashim, F. Z. Rokhani, "Generating Power-optimal Standard Cell Library Specification with Neural Network Technique", in 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), pp. xx, 31 Oct - 2 Nov 2017, Kuala Lumpur, Malaysia.
6. Y. W. Lim, **N. A. Kamsani**, R. M. Sidek, S. J. Hashim, F. Z. Rokhani, "Analysis and Modeling of Standard Cell Height for Energy-Delay Tradeoff", in 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), pp. 109-112, 31 Oct - 2 Nov 2017, Kuala Lumpur, Malaysia.
7. V. Thangasamy, **N.A. Kamsani**, T.Z.A. Zulkifli "Switching Power Control for Multimode Multiband Power Amplifier", in 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), pp. 129-132, 31 Oct - 2 Nov 2017, Kuala Lumpur, Malaysia.
8. M. K. Zulkalnain, **N. A. Kamsani**, R. M. Sidek, S. J. Hashim, F. Z. Rokhani, M. N. Hamidon, "Multi-Node Threshold Voltage Compensation Rectifier for Near-Field RF Energy Harvesting Applications", in 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia), pp. 29-32, 31 Oct - 2 Nov 2017, Kuala Lumpur, Malaysia.
9. V. Thangasamy, V. Thiruchelvam, M. N. Hamidon, S. J. Hashim, Z. Yusoff, M. F. Bukhori, **N.A. Kamsani** "Multimode Multiband Power Amplifier With Tapped Transformer for Efficiency Enhancement in Low Power Mode" in 2016 IEEE International Conference on Semiconductor Electronics (ICSE2016), pp. 268-271, 17-19 Aug 2016, Kuala Lumpur, Malaysia.

10. V. Thangasamy, **N.A. Kamsani**, M. N. Hamidon, S. J. Hashim, Z. Yusoff, M. F. Bukhori, "Wireless Power Transfer with On-Chip Inductor and Class-E Power Amplifier for Implant Medical Device Applications" in *2015 IEEE Student Conference On Research and Development (SCOReD2015)*, pp. 439-443, 13-14 Dec 2015, Kuala Lumpur, Malaysia.
11. Y. W. Lim, S. B. Daas, S. J. Hashim, R. M. Sidek, **N. A. Kamsani**, F. Z. Rokhani, "Reduced Hardware Architecture for Energy-Efficient IoT Healthcare Sensor Nodes" in *2015 IEEE International Circuits and Systems Symposium (ICSyS2015)*, pp. 90-94, 2 Sept - 4 Sept 2015, Langkawi, Malaysia.
12. S. Rahimpour, W. N. Flayyih, **N. A. Kamsani**, M. Stan, F. Z. Rohani, "Investigating The Impact of On-Chip Interconnection Noise on Dynamic Thermal Management Efficiency" in *2015 IEEE International Circuits and Systems Symposium (ICSyS2015)*, pp.85-89, 2 Sept - 4 Sept 2015, Langkawi, Malaysia.
13. **N.A. Kamsani**, V. Thangasamy, M. F. Bukhori, S. Shafie "A Multiband 130nm CMOS Low Noise Amplifier for LTE Bands" in *2015 IEEE International Circuits and Systems Symposium (ICSyS2015)*, pp. 105-109, 2 Sept - 4 Sept 2015, Langkawi, Malaysia.
14. **N.A. Kamsani**, V. Thangasamy, M. F. Bukhori, S. Shafie "A Multiband 130nm CMOS Second Order Band Pass Filter for LTE Bands" in *2015 IEEE International Circuits and Systems Symposium (ICSyS2015)*, pp. 99-104, 2 Sept - 4 Sept 2015, Langkawi, Malaysia.
15. **N.A. Kamsani**, V. Thangasamy, M. N. Hamidon, S. J. Hashim, Z. Yusoff, M. F. Bukhori "A Low Power Multiplexer Based Pass Transistor Logic Full Adder" in *2015 IEEE Regional Symposium on Micro and Nano Electronics (RSM2015)*, pp. 180-183, 19-21 Aug 2015, Kuala Terengganu, Malaysia.
16. S. Rahimpour, W. N. Flayyih, **N. A. Kamsani**, M. Stan, F. Z. Rohani, "Investigating The Impact of On-Chip Interconnection Noise on Dynamic Thermal Management Efficiency" in *11th Ph.D Research in Microelectronics and Electronics (PRIME) 2015*, pp.117-120, 29 June - 2 July 2015, Glasgow, United Kingdom.
17. F. Z. Rokhani, R. M. Sidek, **N. A. Kamsani**, S. J. Hashim, M. I. Saripan, S. M. Daud "Digest of Industry-Oriented Education (IOE) in Closing Student Competency Gap for High-Pace System-on-Chip Industry" in *2015 Intel Embedded Research and Education Summit*, May 2015, Arizona, USA.
18. **N. A. Kamsani**, R. M. Sidek, C. W. Yeo, D. Gan, C. T. Quek, S. Krishnasamy, Y. M. Lee, M. A. Bolanos, "Analog IC Test and Production Engineering Curriculum For Malaysia Microelectronics Industry," *IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE2014)*, 8 Dec - 10 Dec 2014, pp. 283-287, Wellington, New Zealand.
19. S.M. Lee, **N. A. Kamsani**, R. M. Sidek, M. Isa, "Microwave Down-Conversion Gilbert Mixer at 2.4 GHz ZigBee Standard," *accepted for IEEE Asia Pacific Conference on Circuits and Systems (APCCAS2014)*, 17 - 20 Nov 2014, Okinawa, Japan.
20. S. W. Tan, N. Sulaiman, **N. A. Kamsani**, N. A. M. Yunus, "Dual Control Direct Digital Synthesizer (DCDDS) For Electronic Testing and Experimental Work" *International Conference on Engineering Technology & Technopreneurship (ICE2T)*, 27 - 29 Aug 2014, pp. 137-142, Kuala Lumpur, Malaysia.
21. H. Yap, **N. A. Kamsani**, R. M. Sidek, N. Sulaiman and F. Z. Rokhani, "Energy Efficient 8-Bit Microprocessor For Wireless Sensor Network Applications," in *2013 4<sup>th</sup> International Conference on Energy Aware Computing Systems and Applications (ICEAC2013): Dec 16 – 18, 2013*, pp. 147-151, Istanbul, Turki.
22. T. R. Xian, **N. A. Kamsani**, R. M. Sidek, N. A. M. Yunus and M. Isa, "Emulator Development and USB Implementation on SDKP16," in *IEEE International Conference on Circuit and Systems (ICCAS) 2012: October 3-4, 2012*, pp. 282-286, Kuala Lumpur, Malaysia.
23. P. Asenov, **N. A. Kamsani**, D. Reid, C. Millar, S. Roy, A. Asenov, "Combining Process and Statistical Variability in the Evaluation of the Effectiveness of Corners in Digital Circuit Parametric Yield Analysis," in *European Solid-State Device Research Conference/European Solid-State Circuits Conference (ESSDERC/ESSCIRC), 2010: September 13-17, 2010*, pp.130-133, Seville, Spain.

24. **N. A. Kamsani**, B. Cheng, C. Millar, N. Moezi, X. Wang, S. Roy and A. Asenov, "Impact of Slew Rate Definition on the Accuracy of nanoCMOS Inverter Timing Simulations," in *Ultimate Integration on Silicon (ULIS)*, 2010: March 17-19, 2010, pp. 53-56, Glasgow, United Kingdom. DOI: 10.13140/RG.2.1.4188.6884
25. D. Dideban, B. Cheng, N. Moezi, **N. A. Kamsani**, C. Millar, S. Roy and A. Asenov, "Effect of Input Slew Rate on Statistical Timing and Power Dissipation Variability in nanoCMOS," in *Ultimate Integration on Silicon (ULIS)*, 2010: March 17-19, 2010, pp. 45-48, Glasgow, United Kingdom. DOI: 10.13140/RG.2.1.2091.5361
26. **N. A. Kamsani**, B. Cheng, S. Roy, and A. Asenov, "Impact of Random Dopant Induced Statistical Variability on Inverter Switching Trajectories and Timing Variability," in *IEEE International Symposium on Circuits and Systems (ISCAS)*, 2009: May 24-27, 2009, pp. 577 - 580, Taipei, Taiwan.
27. **N. A. Kamsani**, B. Cheng, S. Roy, and A. Asenov, "Statistical Circuit Simulation with Supply-Voltage Scaling In Nanometre MOSFET Devices Under The Influence of Random Dopant Fluctuations," in *7th edition of Faible Tension Faible Consommation (FTFC)*, 2008: May 26-28, 2008, pp. 95-100, Louvain-la-Neuve, Belgium. DOI: 10.13140/RG.2.1.1993.2328
28. **N. A. Kamsani**, B. Cheng, S. Roy, and A. Asenov, "Statistical Circuit Simulation with the Effect of Random Discrete Dopants in Nanometer MOSFET Devices," in *Design Automation and Test in Europe (DATE): Workshop W2, Impact of Process Variability on Design and Test*, 2008: March 10-14, 2008, Munich, Germany. DOI: 10.13140/RG.2.1.1042.9605

#### Book/Book Chapter

1. S. A. Zainol Murad, J. Karim, **N. A. Kamsani** (2018), "*Analog & RF Circuits: Design and Implementation*", *UniMAP Publisher, In-Printing*.
2. V. Thangasamy, S. J. Hashim, **N. A. Kamsani** (2018), "Chapter 4: Switching Power Control and Tunable Matching Method for Multimode Multiband Power Amplifier," *UniMAP Publisher, In-Printing*
3. N. A. Ahmad, N. N. Kamdi, Y. W. Lim, S. J. Hashim, **N. A. Kamsani**, R. M. Sidek, N. E. Farid, F. Z. Rokhani (2018), "Chapter 9: 433 MHz CMOS RF Transmitter Integrated SoC For Internet of Things," *UniMAP Publisher, In-Printing*
4. **N. A. Kamsani** (2012), "*Statistical Circuit Simulations: From Atomistic Compact Models to Statistical Standard Cell Characterisation*," Saarbrücken, Germany : LAP LAMBERT Academic Publishing GmbH & Co. KG, ISBN 978-3-8473-4413-1.

#### Editorial Work – Conference Proceeding

1. M. L. Othman, F. A. Rahman, **N. A. Kamsani** (2017), *Proceedings of the 2017 IEEE 15th Student Conference on Research and Development (SCOReD)*, IEEE, ISBN 978-1-5386-2125-7
2. **N. A. Kamsani**, N. A. M. Yunus, F. Z. Rokhani, A. B. Jambek, M. T. Mustafa (2017), *Proceedings of the 2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PRIMEASIA)*, IEEE, ISBN 978-1-5386-0523-3
3. F. Z. Rokhani, M. M. Isa, **N. A. Kamsani**, W. N. Fayyih (2012), *Proceedings of the 2012 IEEE International Conference on Circuits and Systems (ICCAS)*, IEEE, ISBN 978-1-4673-3119-7.

#### Academic/Professional Magazine

1. Khairul Anuar Muhamad Noh, "UPM shows appreciation to industry and community partners in ICAN2018", *Berita UPM*  
[http://www.upm.edu.my/berita/upm\\_hargai\\_rakan\\_industri\\_dan\\_masyarakat\\_negara\\_dalam\\_majlis\\_apresiasi\\_industri\\_dan\\_komuniti\\_ican\\_2018-39433?L=en](http://www.upm.edu.my/berita/upm_hargai_rakan_industri_dan_masyarakat_negara_dalam_majlis_apresiasi_industri_dan_komuniti_ican_2018-39433?L=en)
2. **N. A. Kamsani**, "2018 IEEE Region 10 Annual General Meeting" IEEE Malaysia Section Newsletter Q1, pp. 7-8, Mar 2018, eISSN:2590-3608



3. W. L. Tan, **N. A. Kamsani**, "2017 IEEE Malaysia Student Congress" IEEE Malaysia Section Newsletter Q4, pp. 7, Dec 2017, eISSN:2590-3608 <https://ieeemy.org/mysection/wp-content/uploads/2018/02/IEEEMY-newsletter-Q4-2017-Final.pdf>
4. S. A. Ahmad, **N. A. Kamsani**, "IEEE Student Conference on Research and Development (SCORED2017)," IEEE Malaysia Section Newsletter Q4, pp. 8, Dec 2017, eISSN:2590-3608 <https://ieeemy.org/mysection/wp-content/uploads/2018/02/IEEEMY-newsletter-Q4-2017-Final.pdf>
5. N. Badruddin, **N. A. Kamsani**, "IEEE Women In Engineering: Women in Engineering International Leadership Summit (WIE-ILS), Kuala Lumpur 2017" IEEE Malaysia Section Newsletter Q3, pp. 22, Sept 2017, eISSN:2590-3608 <https://ieeemy.org/mysection/wp-content/uploads/2017/11/IEEEMY-newsletter-Q3-2017-Final-.pdf>
6. **N. A. Kamsani**, "IEEE Malaysia Student Activities: 2017 IEEE Malaysia Final Year Project Competition Result" IEEE Malaysia Section Newsletter Q3, pp. 7-8, Sept 2017, eISSN:2590-3608 <https://ieeemy.org/mysection/wp-content/uploads/2017/11/IEEEMY-newsletter-Q3-2017-Final-.pdf>
7. **N. A. Kamsani**, "IEEE Student Branch UPM: Mini The Great Lab (TGL), Raspberry Pi Workshop and Technical Visit to Agensi Nuklear Malaysia" IEEE Malaysia Section Newsletter Q2, pp. 26, June 2017, eISSN:2590-3608 <https://ieeemy.org/mysection/wp-content/uploads/2017/08/IEEEMY-newsletter-Q2-2017-Final-.pdf>
8. **N. A. Kamsani**, "IEEE Malaysia Student Activities: 2017 IEEE Malaysia Final Year Project Competition" IEEE Malaysia Section Newsletter Q2, pp. 7-8, June 2017, eISSN:2590-3608 <https://ieeemy.org/mysection/wp-content/uploads/2017/08/IEEEMY-newsletter-Q2-2017-Final-.pdf>
9. **N. A. Kamsani**, "IEEE Malaysia Student Activities: IEEE Malaysia Student Leadership Camp 2017" IEEE Malaysia Section Newsletter Q1, pp. 7, Mar 2017. <http://ieeemy.org/mysection/wp-content/uploads/2017/05/IEEEMY-Newsletter-Q1-2017-.pdf>
10. V. Thangasamy, **N. A. Kamsani**, "Multimode Multiband PA in 130nm CMOS" Program Book of 2017 IEEE CAS Malaysia Chapter Networking High-Tea, pp. , 27 July 2017.
11. Jose L. Ayala, "Highlights from WIE ILC 2016" Currents Newsletter- IEEE Council on Electronic Design Automation, Nov 2016. <http://ieee-ceda.org/images/documents/Newsletters/CEDANL-NOV16-lo.pdf>
12. C. C. Yen, Austin, C. K. Hong, R. M. K. R. Ahmad, A. C. Soh, **N. A. Kamsani**, "Development of Human Fall Detector" Program Book of 2016 IEEE CAS Malaysia Chapter Networking High-Tea, pp. , 27 July 2016.
13. M. A. Sadali, N. A. M. Yunus, N. Sulaiman, I. A. Halin, **N. A. Kamsani**, "Greenhouse Agriculture Using LED Lighting" Program Book of 2016 IEEE CAS Malaysia Chapter Networking High-Tea, pp. , 27 July 2016.
14. Azman Zakaria, "**Dr. Noor Ain** terima IEEE WIE-ILC Award - Hadiri Persidangan Antarabangsa WIE-ILC" *TribunPutra*, bil. 84, Apr-Jun 2016. [http://www.upm.edu.my/news/dr\\_noor\\_ain\\_receives\\_international\\_ieee\\_wie\\_ilc\\_travel\\_award-25317](http://www.upm.edu.my/news/dr_noor_ain_receives_international_ieee_wie_ilc_travel_award-25317)
15. **N. A. Kamsani**, "IEEE SB UPM: IEEE Region 10 Student, Young Professional, Women in Engineering Congress 2015" IEEE Malaysia Section Newsletter Q3&Q4, pp. 7, Dec 2015. <http://ieeemy.org/mysection/?p=2692>
16. V. Thangasamy, **N.A. Kamsani**, M. N. Hamidon, S. J. Hashim, "Multimode Multiband PA For LTE" Program Book of 2015 IEEE CAS Malaysia Chapter Networking High-Tea, pp. 26, Oct 2015.
17. **N.A. Kamsani**, "IEEE CASS Outreach Initiatives WiCAS2015" IEEE Circuits and Systems Society Newsletter, vol. 6, issue 4, Aug 2015. [http://cassnewsletter.org/Volume9-Issue4/Contents\\_%28Volume\\_9\\_Issue\\_4\\_August\\_2015%29.html](http://cassnewsletter.org/Volume9-Issue4/Contents_%28Volume_9_Issue_4_August_2015%29.html)
18. **N.A. Kamsani**, "UPM Anjur Arduino Hands-On Workshop : From Zero To Hero" [http://www.upm.edu.my/berita/upm\\_anjur\\_arduino\\_hands\\_on\\_workshop%3A\\_from\\_zero\\_to\\_hero-25121](http://www.upm.edu.my/berita/upm_anjur_arduino_hands_on_workshop%3A_from_zero_to_hero-25121)

19. **N. A. Kamsani**, "IEEE SB UPM: Arduino Workshop: From Zero To Hero" IEEE Malaysia Section Newsletter Q2, pp. 15, Aug 2015. <http://ieeemy.org/mysection/?p=2294>
20. **N. A. Kamsani**, "IEEE SB UPM: IEEE CASS Outreach Initiatives 2014 - Summer School on IC Design & Test" IEEE Region 10 Newsletter, pp. 24-25, Dec 2014. <http://www.ieeer10.org/activities/newsletter.html>

### Intellectual Property

1. 2018, IC Design Layout of RF Power Amplifier with Envelope Tracking (*ICLD - MyIPO File No: AR2018000945*)
2. 2016, IC Design Layout of Multimode Multiband RF Power Amplifier (*ICLD - UPM IC Design No: 201612270512*)

### Research Grant

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Evaluation of Optimum Scan Chain Parameters in Design for Testability (DFT) in Integrated Circuits ( <b>Project Leader</b> )	25,000	2018-2019	UPM-IPS
2.	Wirelessly Powered Passive Tag Automatic Identification For Vehicle Security and Services With Energy Harvesting Capability ( <b>Co-Researcher</b> )	132,500	2017-2018	MTSFB Internet of Things (IoT) Project
3.	Photovoltaic System: From Transparent Solar Cell to Greenhousing Applications Under Tropical Environment ( <b>Co-Researcher</b> )	500,000	2016-2018	UPM-IPB
4.	Demand, Driven Development (3D) Program - Design For Testability Module ( <b>Project Leader</b> )	61,000	2016-2018	TalentCorp/USM
5.	Integrated Circuit Design of CMOS Rectifier in Energy Harvesting System ( <b>Project Leader</b> )	16,300	2016-2018	PUTRA-IPS
6.	Integrated Circuit Design of An Envelope Tracking in a Multi Mode Multi Band RF Power Amplifier ( <b>Project Leader</b> )	160,500	2015-2018	e-Science
7.	Integrated Hardware/Software Co-Design Methodology For Automotive Grade Engine Control Unit (ECU) System-on-Chip ( <b>Project Leader</b> )	854,947	2015-2019	CREST, FSR
8.	Flexible Electronics for Wearable Applications ( <b>Co-Researcher</b> )	200,000	2015-2017	PUTRA-IPB
9.	Design and Evaluation of Multimode Multiband (MMMB) RF Power Amplifier for LTE Smartphone Applications ( <b>Project Leader</b> )	15,000	2014-2017	PUTRA-IPS
10.	Fundamental Research on the Hall-Effect Sensor Based Motion Sensing Unit For Electronics Water Meter to Improve the Immunity Against Magnetic Disturbance and Environmental Noise ( <b>Co-Researcher</b> )	76,000	2014-2017	FRGS
11.	Modeling and Cross – Layer Power Optimization in Standard Cell Library Design for System-on-Chip Application ( <b>Co-Researcher</b> )	923,900	2014-2018	CREST, Siltera

12.	Pico-Second Delay Time Step Long Range CMOS Digital Delay Line ( <b>Co-Researcher</b> )	354,630	2014-2017	e-Science
13.	Development of Analog Electronics Test & Product Engineering Program – TI University Program ( <b>Co-Researcher</b> )	450,000	2012-2014	Texas Instruments, Matching Fund
14.	Effectiveness of Industry-Oriented Education (IOE) in Closing Student Competency Gap for High-Pace Electronics Industry ( <b>Co-Researcher</b> )	20,000	2012-2014	GIPP
15.	Implementation of Current Source Model in Statistical Static Timing Analysis ( <b>Project Leader</b> )	25,000	2012-2014	RUGS

### Award/Recognition

No	Name of Awards	Award Authority	Award Type	Year
1.	"Anugerah Projek Jaringan Industri Terbaik (Staf Akademik) : TI-UPM Program: Analog Electronics and Product Engineering" (Project Leader)	Universiti Putra Malaysia	Trophy & Certificate	2018
2.	"Anugerah Rakan Industri Terbaik : Texas Instruments Malaysia : TI-UPM Program: Analog Electronics and Product Engineering" (Project Leader)	Universiti Putra Malaysia	Trophy & Certificate	2018
3.	"Anugerah Jaringan Industri dan Komuniti Berimpak Tinggi 2017: Projek Industri Lima Bintang - TI-UPM Program: Analog Electronics and Product Engineering" (Project Leader)	Universiti Putra Malaysia	Certificate	2018
4.	"Anugerah Jaringan Industri dan Komuniti Berimpak Tinggi 2017: Projek Industri Lima Bintang - Modeling and Cross - Layer Power Optimization in Standard Cell Library Design for System-on-Chip Application" (Project Member)	Universiti Putra Malaysia	Certificate	2018
5.	'Sijil Penyertaan Pertandingan Fakulti/Pusat Terbaik Amalan Inovasi Pengajaran & Pembelajaran 2017' Universiti Putra Malaysia, 2017 (Faculty Representative)	Universiti Putra Malaysia	Certificate	2017
6.	"Anugerah Jaringan Industri dan Komuniti Berimpak Tinggi 2016: Projek Industri Lima Bintang - Modeling and Cross - Layer Power Optimization in Standard Cell Library Design for System-on-Chip Application" (Project Member)	Universiti Putra Malaysia	Certificate	2017
7.	Anugerah Perkhidmatan Cemerlang (RM1,000)	Universiti Putra Malaysia	Cash Prize & Certificate	2016
8.	'Sijil Penghargaan Graduate On Time - Dr. Veeraiyah Thangasamy' (PhD Supervisor)	Universiti Putra Malaysia	Certificate	2016
9.	Sijil Penghargaan Perkhidmatan Cemerlang	Universiti Putra Malaysia	Certificate	2013
10.	Anugerah Kecemerlangan Dalam Pengajaran	Universiti Putra Malaysia	Certificate	2012



No	Name of Awards	Award Authority	Award Type	Year
1.	'Sijil Penghargaan Penasihat Kelab IEEE Student Branch UPM Sesi 2016/2017'	Faculty of Engineering, UPM	Certificate	2017
2.	"Hardware Software Partitioning of Crankshaft Function in Engine Control Unit Using FPGA-Based Testing" in 2017 Pameran Projek Pelajar Tahun Akhir (Silver Medal)	Faculty of Engineering, UPM	Silver Medal	2017
3.	'Sijil Penghargaan Penasihat Kelab IEEE Student Branch UPM Sesi 2015/2016'	Faculty of Engineering, UPM	Certificate	2016
4.	'Anugerah Kecemerlangan Dalam Pengajaran Tahun 2016'	Faculty of Engineering, UPM	Certificate	2016
5.	'Sijil Penghargaan Penasihat Kelab IEEE Student Branch UPM Sesi 2014/2015'	Faculty of Engineering, UPM	Certificate	2015
6.	'Anugerah Kecemerlangan Dalam Pengajaran Tahun 2012'	Faculty of Engineering, UPM	Certificate	2012

No	Name of Awards	Award Authority	Award Type	Year
1.	Certificate of Achievement in MOOC Competition (Silver Award)	1st International MEDLIT Conference 2018	Certificate	2018
2.	2017 IEEE CASS World Chapter of The Year Award	IEEE Circuits and Systems Society, HQ	Cash Prize & Certificate	2017
	IEEE WIE-ILC Award (USD2,000)	IEEE Council on Electronic Design Automation, USA	Travel Award	2016
3.	2016 IEEE Outstanding Student Branch Counselor Award (Club Advisor)	IEEE HQ, USA	Cash Prize & Certificate	2016
4.	2016 IEEE R10 Exemplary Student Branch Award (Club Advisor)	IEEE Region 10 (Asia Pacific)	Cash Prize & Certificate	2016
5.	2016 IEEE CASS World Chapter of The Year Award (Secretary)	IEEE Circuits and Systems Society, HQ	Cash Prize & Certificate	2016
6.	2015 IEEE CASS Region 10 Chapter of The Year Award (Secretary)	IEEE Circuits and Systems Society, HQ	Cash Prize & Certificate	2015
7.	2014 IEEE CASS Region 10 Chapter of The Year Award (Secretary)	IEEE Circuits and Systems Society, HQ	Cash Prize & Certificate	2014
8.	CASS Outreach Initiative on School Program (USD1,500)	IEEE Circuits and Systems Society, HQ	Cash Prize	2015
9.	Networking CASS Chapters in Asia-Pacific Countries Initiative – Seoul Chapter (USD1,000)	IEEE Circuits and Systems Society, Region 10	Cash Prize	2014
10.	CASS Outreach Initiative on Summer School on IC Design & Test (USD5,000)	IEEE Circuits and Systems Society, HQ	Cash Prize	2014
11.	Networking CASS Chapters in Asia-Pacific Countries Initiative – Indonesia Chapter (USD1,000)	IEEE Circuits and Systems Society, Region 10	Cash Prize	2013

No	Name of Awards	Award Authority	Award Type	Year
1.	2017 IEEE CAS (M) Young Leader Professional Award	IEEE CAS Malaysia	Cash Prize & Certificate	2017
2.	2017 IEEE CAS (M) Outstanding Doctoral Dissertation Award won for project entitled "Design and Evaluation of Multimode Multiband Power Amplifier in 130nm CMOS For LTE Bands" (PhD Supervisor)	IEEE CAS Malaysia	Cash Prize & Certificate	2017
3.	2017 National Science Challenge - Selangor State Level, (Chief Judge)	Young Scientist Network - Academy Science Malaysia	Certificate	2017
4.	Innovate Malaysia Design Competition - Development of ISO26262 Certified Engine Control Unit (Shortlisted)	Intel	Certificate	2017
5.	Innovate Malaysia Design Competition – Development of a Wearable Human Fall Detection System (2 <sup>nd</sup> prize)	Mathwork	Cash Prize	2015
6.	IEEE Student Branch Best Award (3 <sup>rd</sup> place)	IEEE Malaysia Section	Certificate	2014
7.	Innovate Malaysia Design Competition – Low Power 8-bit Processor Design (Consolation Prize)	Silterra	Cash Prize	2013
8.	Innovate Malaysia Competition – Best Video Award (1 <sup>st</sup> Prize)	DreamCatcher	Cash Prize	2013
9.	IEEE Student Branch Best Award (3 <sup>rd</sup> place)	IEEE Malaysia Section	Certificate	2013
10.	Intel Spontaneous Recognition Award – Contribution in achieving RTL 0.0 milestone at early stage in ICH10 project	Intel	Cash Prize	2006
11.	Intel Kudos Award – Contribution in ICH8 Thermal throttling task force post-si checkout	Intel	Cash Prize	2006
12.	Intel Kudos Award – Contribution in ICH8 SHBI debug	Intel	Cash Prize	2006

### Student Supervision

#### PhD (Main Supervisor)

No.	Name	Title	Status
1.	Veeraiyah Thangasamy (GS36557)	Design and Evaluation of Multimode Multiband Power Amplifier in 130nm CMOS For LTE Bands	Graduated in 2016 (GOT)

#### MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Muhammad Anwer Nazir (GS34907)	Integration of Ultra-Capacitor and Battery as Hybrid Energy Storage With Intelligent Controller For Electric Vehicle Applications	Withdraw
2.	Mohd Khairi Zulkalnain (GS42911)	Integrated Circuit Design of CMOS Rectifier in Energy Harvester System	On-Going
3.	Nur Amirah Latip (GS47744)	Design For Testability in Wireless MCU	On-Going

No.	Name	Title	Status
4.	Fatimah Abd Rahman (GS49822)	Integrated Hardware/Software Co-Design Methodology For Automotive Grade Engine Control Unit (ECU) System-on-Chip	On-Going
5.	Seyed Arash Zareianjahromi (GS50360)	Integrated Circuit Design of CMOS Rectifier in Energy Harvester System	On-Going

#### PhD (Co-Supervisor)

No.	Name	Title	Status
1.	Mohammadreza Shokrani (GS26679)	RF Harvesting Energy Circuit Design	Withdraw
2.	Somayeh Rahimi Pour (GS32330)	Fault Tolerance Mechanisms and Monitoring Network on Chip	Graduated in 2018
3.	Lim Yang Wei (GS32330)	Modeling and Cross - Layer Power Optimization in Standard Cell Library Design for System-on-Chip Application	On-Going
4.	Aqeel Abdulazeez Mohammed (GS43107)	Intelligent Path Planning of Intelligent Autonomous Vehicles	On-Going

#### MS with thesis (Co-Supervisor)

No.	Name	Title	Status
1.	Hamid Barzabadi Farahani (GS28950)	Design, Implementation and Fabrication of Humidity Sensor With the Thick-Film Hybrid Technology	Graduated in 2014
2.	Farid Jamialahmadi (GS32288)	Standard Cell Library Characterization Tool	Thesis Submitted
3.	Wan Maziyah Ab Halim (GS31350)	Coordinate Rotation Digital Computer (CORDIC) Application	Withdraw
4.	Mohammed Saadi Ismael (GS43933)	Antenna Design for LTE Application	On-Going
5.	Siti Rahimah Ahmad Shaifol Bahri (GS47976)	SRAM Design of MCU	On-Going
6.	Nur Amalina Ahmad (GS47986)	Full Chip Integration	On-Going

#### Thesis Examination Committee

No	Year	Name of Student /Institution	Degree	Designation
1.	2017	Athraa Ali Khadem (UPM)	PhD	Viva Chair
2.	2017	Intan Helina Hasan (UPM)	PhD	Examiner
3.	2017	Farah Adilah Jamaludin (UPM)	PhD	Viva Chair
4.	2017	Kamilu Iman Usman (UPM)	MSc	Examiner
5.	2017	Sim Guan Ling(UPM)	MSc	Viva Chair
6.	2017	Musa Suleiman (UPM)	PhD	Viva Chair
7.	2017	Sinan Sabah Mahmood (UPM)	PhD	Viva Chair
8.	2017	Salih Gwami Mohammed Hamad (UPM)	PhD	Viva Chair
9.	2016	Bilal Isam Abdulrazzaq (UPM)	PhD	Examiner
10.	2016	Amin Mazehari (UPM)	PhD	Examiner

#### External Assessor

No	Name of Program	Institution	Year
1.	Diploma in Electrical & Electronic Engineering Programme	Institut Teknologi Pertama	2017
2.	Diploma in Electrical & Electronic Engineering Programme	Linton University College	2017
3.	Certificate in Electrical & Electronic Engineering Programme	Institut Teknologi Pertama	2017

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| 4. | Foundation Studies in Engineering Programme                      | Institut Teknologi Pertama                                 | 2017 |
| 5. | <i>'Jawatankuasa Penjaminan Kualiti Item Dwibahasa (JKPKID)'</i> | Lembaga Peperiksaan,<br>Kementerian Pendidikan<br>Malaysia | 2017 |

### Article Reviewer

No	Name of Journal	Publisher	Year
1.	Malaysian Educational Module on Responsible Conduct of Research	Academy of Science Malaysia	2018
2.	Journal of Applied Technology and Innovation	Asia Pacific University	2017
3.	Alexandria Engineering Journal	Elsevier	2016
4.	IEEE Transactions on Electron Devices	IEEE	2016

### Conference Committee/Paper Reviewer

No	Name of Conference	Involvement	Year
1.	IEEE International Conference on Teaching, Assessment and Learning for Engineering 2018, Wollongong, NSW, Australia, 4-7 Dec 2018	Paper Reviewer	2018
2.	7th ASEAN Plus Three Junior Science Odyssey (APT JSO-7) - STI For a Progressive Malaysia By 2050 Video Competition, Putrajaya, 14 May 2018	Technical Evaluator	2018
3.	2018 IEEE International Conference on Semiconductor Electronics (ICSE2016), Kuala Lumpur, 15-17 August 2018	Paper Reviewer	2018
4.	4th International Conference On Electronic Design 2018 (ICED2018), Malacca, 9-10 Aug 2018	Paper Reviewer	2018
5.	7th International Conference on Intelligent and Advanced Systems, 2018 (ICIAS2018), Kuala Lumpur, 13-15 Aug 2018	Paper Reviewer	2018
6.	2018 International Conference On Creative and Innovative Technology in Education (i-CITE2018), Johor Bahru, 24-25 July 2018	Paper Reviewer	2018
7.	2017 IEEE Student Conference on Research and Development (SCORED 2017), Putrajaya, 13-14 Dec 2017	General Co-Chair/Paper Reviewer	2017
8.	2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia2017), 31 Oct - 2 Nov 2017, Kuala Lumpur	Publication Chair/Paper Reviewer	2017
9.	2017 IEEE Region 10 Conference (TENCON2017), Penang, 5-8 Nov 2017	Paper Reviewer	2017
10.	2017 International Conference on Electrical, Electronic, Communication and Control (ICEECC2017), Kuala Lumpur, 5 - 6 Dec 2016	Paper Reviewer	2017
11.	2017 Symposium on VLSI Design and Embedded Computing (VDEC-2017), Karnataka India, 13-16 Sep 2017	Paper Reviewer	2017
12.	2017 Symposium on Advanced Materials and Nanotechnology (SAMN2017), Putrajaya, 18-19 July 2017	Paper Reviewer	2017
13.	2017 IEEE Regional Symposium on Micro and Nanoelectronics (RSM2017), Penang, 23-25 Aug 2017	Paper Reviewer	2017
14.	2017 IEEE International Symposium on Circuits and Systems (ISCAS2017), Baltimore, USA, 28-31 May 2017	Paper Reviewer	2017

15.	2016 IEEE Student Conference on Research and Development (SCORED 2016), Kuala Lumpur, 13-14 Dec 2016	Paper Reviewer	2016
16.	2016 International Conference on Electrical, Electronic, Communication and Control (ICEECC2016), Johor, 18-19 Dec 2016	Paper Reviewer	2016
17.	2016 IEEE Malaysia Final Year Project Competition (Track 3: Electronics, IEEE Malaysia Section)	Technical Evaluator	2016
18.	2016 IEEE CAS Award (Malaysia Chapter), IEEE Circuits & Systems Malaysia Chapter	Technical Evaluator	2016
19.	2016 IEEE International Conference on Semiconductor Electronics (ICSE2016), Kuala Lumpur, 17-19 August 2016	Paper Reviewer	2016
20.	2016 International Conference on Electric & Electronic Engineering Technology (ICEETech2016), Selangor, 22-27 Aug 2016	Secretary/Technical Program Chair / Paper Reviewer	2016
21.	2016 IEEE International Symposium on Circuits and Systems (ISCAS2016), Montreal, Canada, 22-25 May 2016	Paper Reviewer	2016
22.	2016 9th International Conference on Robotics, Vision, Signal Processing & Power Applications (ROVISP2016), Penang, 2-3 Feb 2016	Paper Reviewer	2016
23.	2015 IEEE International Conference on Circuits and Systems (ICSyS 2015), Langkawi, 2-4 Sep 2015	Publicity Chair / Paper Reviewer	2015
24.	2015 IEEE Regional Symposium on Micro and Nano Electronics (RSM2015), Kuala Terengganu, 19 - 21 Aug 2015	Paper Reviewer	2015
25.	2014 IEEE CAS Award (Malaysia Chapter), IEEE Circuits & Systems Malaysia Chapter	Technical Evaluator	2014
26.	2014 IEEE International Conference on Semiconductor Electronics (ICSE2014), Kuala Lumpur, 27-29 August 2014	Paper Reviewer	2014
27.	5th International Conference on Intelligent and Advanced Systems, 2014 (ICIAS2014), Kuala Lumpur, 3 -5 June 2014	Paper Reviewer	2014
28.	IEEE Regional Symposium on Micro and Nanoelectronics (RSM2013), Langkawi, 25-27 Sep 2013	Paper Reviewer	2013
29.	IEEE International Conference on Circuits and Systems (ICCAS 2013), Kuala Lumpur, 19-20 Sep 2013	Secretary / Paper Reviewer	2013
30.	International Workshop on Advances in VLSI Circuit Design and ECAD Tools (AVCDCT13), Mysore, India, 22-25 Aug 2013	Paper Reviewer	2013
31.	World Research & Innovation Convention on Engineering & Technology 2012 (WRICET 2012), Kuala Lumpur, 3-5 Dec 2012	Paper Reviewer	2012
32.	IEEE International Conference on Circuits and Systems (ICCAS 2012), Kuala Lumpur, 3-5 Oct 2012	Paper Reviewer	2012
33.	Ultimate Integration on Silicon (ULIS 2010) Conference, Glasgow, 17-19 Mar 2010	Committee	2010
34.	Malaysia-Glasgow Doctoral Colloquium (MGDC 2010), Glasgow, 20-21 Jan 2010	Committee	2010



### Professional Services/Consultation

No	Year	Title	Authority	Amount
1	2016	International Training Program on Study of Technical Education Innovations for Developing Nations	Ceylon Electricity Board	500.00

### International Networking Visit

No	Institution	Country	Year
1.	Kyushu Institute of Technology	Japan	2016
2.	Santa Clara University	USA	2016
3.	Chiba University	Japan	2015
4.	Kyushu Institute of Technology	Japan	2015
5.	Victoria University of Wellington	New Zealand	2014
6.	Ajou University	Korea	2014
7.	Institut Teknologi Bandung	Indonesia	2013

### Invited Talk

No	Talk Title	Event	Year
1.	IEEE Malaysia Secretarial Role & Reporting	IEEE Malaysia Leadership Camp	2018
2.	Empowering IEEE Student Branch Leadership	IEEE Malaysia Student Congress	2017
3.	Student Activities and Best Practices (Coordinator/Moderator)	2017 IEEE Student Meet Up at 2017 IEEE Region 10 Conference (TENCON2017)	2017
4.	IEEE Malaysia Student Branch Overview	IEEE Malaysia Student Branch Leadership Camp	2017
5.	MOSFET Device Scaling Trend and Its Statistical Variation Impact on Circuits Reliability	Technical Visit to International Islamic University Malaysia (IIUM)	2017
6.	System on Chip Design For Automotive - Making Reliability a Top Priority	2016 FAIS Symposium, Kyushu Institute of Technology, Japan	2016
7.	A Role As Honorary Secretary	IEEE CAS Society Malaysia Meeting & Retreat	2016
8.	Multimode Multiband RF Power Amplifier	Workshop on Circuits & Systems, Kyushu Institute of Technology, Japan	2015
9.	MOSFET Device Scaling Trend and Its Statistical Variation Impact on Circuits Reliability	Technical Visit to Texas Instruments Malaysia	2015
10.	Key Strategies For Student Success	IEEE Day 2015	2015
11.	Connecting Designers With Foundry	Summer School on IC Design & Test 2015	2015
12.	MOSFET and Model	Summer School on IC Design & Test 2015	2015
13.	Analog IC Test and Production Engineering Curriculum For Malaysia Microelectronics Industry	IEEE International Conference on Teaching, Assessment and Learning for Engineering	2014
14.	Emulator Development and USB Implementation on SDKP16	IEEE International Conference on Circuit and Systems (ICCAS) 2012	2012
15.	Life As A Postgraduate Student	Taklimat Pelajar Siswazah Baharu Semester Pertama Sesi 2012/2013'	2012

16. Impact of Slew Rate Definition on the Accuracy of nanoCMOS Inverter Timing Simulations	Ultimate Integration on Silicon (ULIS)	2010
17. Impact of Random Dopant Induced Statistical Variability on Inverter Switching Trajectories and Timing Variability	IEEE International Symposium on Circuits and Systems (ISCAS), 2009	2009
18. Statistical Circuit Simulation with Supply-Voltage Scaling In Nanometre MOSFET Devices Under The Influence of Random Dopant Fluctuations	7th edition of Faible Tension Faible Consommation (FTFC), 2008	2008
19. Statistical Circuit Simulation with the Effect of Random Discrete Dopants in Nanometer MOSFET Devices,	Design Automation and Test in Europe (DATE): Workshop W2, Impact of Process Variability on Design and Test, 2008	2008

### Student Activity

#### Competitions – International Level

No	Name of Activity	Involvement	Year
1.	IEEEExtreme 11.0 Programming Competition	Proctor	2017
2.	IEEEExtreme 9.0 Programming Competition	Proctor	2015
3.	IEEEExtreme 8.0 Programming Competition	Proctor	2014

#### Competitions – National Level

No	Name of Activity	Involvement	Year
1.	2017 IEEE CAS (M) Outstanding Doctoral Dissertation Award	PhD Supervisor	2017
2.	2017 Pameran Projek Pelajar Tahun Akhir, Faculty of Engineering, UPM	Project Supervisor	2017
3.	2017 Innovate Malaysia Design Competition, Intel Track	Project Supervisor	2017
4.	The Great Lab Grand Design Challenge, CREST	Project Supervisor	2016
5.	ASQED 2015 Microelectronics Olympiad	Advisor	2015
6.	Freescale Cup Competition	Advisor	2015
7.	Innovate Malaysia 2015 Competition, Mathwork Track	Project Supervisor	2015
8.	Innovate Malaysia 2013 Competition, SilTerra Track	Project Supervisor	2013
9.	2013 IEEE CAS (M) Innovative Award	Project Supervisor	2013

#### Activities – Faculty of Engineering

No	Name of Activity	Involvement	Year
1.	Asasi Education Fair	Committee Member	2018
2.	Majlis Kecemerlangan Graduan Sesi 2016/2017	Committee Member	2017
3.	Pameran Projek Pelajar Tahun Akhir 2017	Committee Member	2017
4.	Minggu Perkasa Putra 2017	Committee Member	2017
5.	Majlis Kecemerlangan Graduan Sesi 2015/2016	Committee Member	2016
6.	Minggu Perkasa Putra 2016	Committee Member	2016
7.	Pameran Projek Pelajar Tahun Akhir 2016	Committee Member	2016
8.	Asasi Education Fair, 2016	Committee Member	2016
9.	Majlis Kecemerlangan Graduan Sesi 2014/2015	Committee Member	2015
10.	Minggu Perkasa Putra Pelajar Baharu Sesi 2015/2016	Committee Member	2015

11.	Pameran Projek Pelajar Tahun Akhir 2015	Committee Member	2015
12.	Jobs On Campus - Mohammad Farhan Mohamad Amin	Supervisor	2015
13.	Minggu Perkasa Putra 2014	Committee Member	2018
14.	Final Year Project Carnival, Department of Electrical & Electronic Engineering	Committee Member	2014
15.	'Motivasi Pelajar III', Department of Electrical & Electronic Engineering	Committee Member	2012
16.	'Hari Terbuka Fakulti Kejuruteraan - Pameran Projek Tahun Akhir', Department of Electrical & Electronic Engineering	Committee Member	2012
17.	'Aktiviti Bulanan Pegawai Akademik Wanita Fakulti Kejuruteraan- Kenali Diri'	Committee Member	2011
18.	'Immersion Bahasa Inggeris'	Mentor	2013

#### Activities – IEEE Student Branch UPM & IEEE Malaysia

No	Name of Activity	Involvement	Year
1.	EEE4207 - Student Technical Visit to Intel	Coordinator	2018
2.	2017 IEEE Student Meet Up at 2017 IEEE Region 10 Conference (TENCON2017), Penang	Coordinator/Panel	2017
3.	EEGames 2017	Program Advisor	2017
4.	Future is In Your Hand : Technical Talk	Program Advisor	2016
5.	EEGames 2016	Program Advisor	2016
6.	IEEE R10 Student Internship & Skill Development, SHRDC	Program Advisor	2016
7.	Smart Home System Development Using Arduino - School Program at IMAS, Putrajaya	Program Advisor	2016
8.	IEEESB Membership Drive 2016	Program Advisor	2016
9.	Arduino Workshop 3.0: Be An Expert!	Program Advisor	2016
10.	IEEE Malaysia Student Congress	General Chair	2015
11.	EEGames 2015	Program Advisor	2015
12.	IEEE Day 2015	Invited Speaker	2015
13.	Summer School on IC Design & Test 2015	Program Advisor	2015
14.	"Best Poster Presentation on Student Activities" in 2015 IEEE Region 10 Student, Young Professional. Women in Engineering Congress, Sri Lanka	Cub Advisor	2015
15.	Arduino Workshop School Program with SMK Seri Indah	Program Advisor	2015
16.	Arduino Workshop 2.0 - From Zero to Hero	Program Advisor	2015
17.	IEEESB Membership Drive 2015	Program Advisor	2015
18.	Arduino Workshop 1.0 - From Zero to Hero	Program Advisor	2014
19.	Networking Visit to Universiti Sains Islam Malaysia	Program Advisor	2014
20.	Summer School on IC Design & Test 2014	Program Advisor	2014
21.	IEEESB Annual Dinner 2014	Program Advisor	2014
22.	Plant Educational Visit to National Instruments, Penang	Program Advisor	2014
23.	IEEESB Bowling Tournament 2014	Program Advisor	2014
24.	IEEESB Membership Drive 2014	Program Advisor	2014

## Community Engagement

No	Name of Activity	Involvement	Year
1.	SEMICON South East Asia (SEMICONSEA2018), SEMI	Booth Exhibitor & University Program	2018
2.	7th ASEAN Plus Three Junior Science Odyssey (APT JSO-7) - STI For a Progressive Malaysia By 2050 Video Competition, Putrajaya	Technical Evaluator	2018
3.	Asasi Education Fair, 2018	Committee Member	2018
4.	2017 IEEE Student Conference on Research and Development (SCORED 2017)	General Co-Chair & Session Chair	2017
5.	2017 IEEE Student Meet Up at 2017 IEEE Region 10 Conference (TENCON2017),	Coordinator	2017
6.	2017 IEEE mini Panel of Conference Organizers (POCO)	Secretariat Chair	2017
7.	2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (PrimeAsia2017)	Publication Chair & Session Chair	2017
8.	2017 National Science Challenge - Selangor State Level	Secretariat	2017
9.	2017 Women in Engineering - International Leadership Summit	Secretary	2017
10.	Malaysian Educational Institute on Responsible Conduct of Research	Facilitator	2017
11.	Journal of Applied Technology and Innovation	Associate Editor	2017
12.	Fun Engineering Session with Sekolah Seri Puteri	Facilitator	2017
13.	Pameran Penyelidikan Dan Sesi Jaringan Bersama Industri Tahun 2016	Booth Exhibitor	2016
14.	2016 International Conference on Electric & Electronic Engineering Technology (ICEETech2016)	Secretary & Session Chair	2016
15.	2016 IEEE CAS Malaysia Chapter Networking High Tea, SAINS@USM Penang	Secretariat	2016
16.	IEEE R10 Student Internship & Skill Development, SHRDC	Program Advisor	2016
17.	Smart Home System Development Using Arduino - School Program at International Modern Arabic School (IMAS), Putrajaya	Program Advisor	2016
18.	Asasi Education Fair 2016	Committee Member	2016
19.	IEEE CAS Malaysia Newsletter	Associate Editor	2016
20.	IEEE Malaysia Student Congress	General Chair	2016
21.	IEEE CASS Outreach Initiatives on Women in Circuits and Systems (WiCAS2015)	Secretary & Session Chair	2015
22.	2015 IEEE International Conference on Circuits and Systems (ICSyS 2015)	Publicity Chair & Session Chair	2015
23.	Summer School on IC Design & Test 2015	Program Advisor	2015
24.	Arduino Workshop School Program with SMK Seri Indah	Program Advisor	2015
25.	Summer School on IC Design & Test 2014	Program Advisor	2014
26.	Plant Educational Visit to National Instruments, Penang	Program Advisor	2014
27.	IEEE International Conference on Circuits and Systems (ICCAS 2013)	Secretary & Session Chair	2013
28.	IEEE International Conference on Circuits and Systems (ICCAS 2012)	Committee	2012



29. Community Service : Taught Malay Language & Islamic Studies Classes For Primary School Students at Sekolah Malaysia Glasgow Facilitator 2009