

CURRICULUM VITAE



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Education

1. Ph.D in Electrical Engineering, 2014, Universiti Teknologi Malaysia, Johor.
2. M. Eng. Sc (By Research), 2010, Multimedia University (MMU), Cyberjaya.
3. B. Eng (Hons) in Electronics Engineering, 1998, King's College London (KCL), London, UK.

Areas of Interest

1. RF over Fibre (RoF).
2. Optical Communication.

Professional Qualification/ Membership/ Affiliation

1. Professional Engineer (with Practicing Certificate), Board of Engineers Malaysia (BEM), 2009 to date.
2. Senior Member, Institute of Electrical and Electronics Engineers (IEEE), 2014 to date.
3. Executive Committee, IEEE Photonic Society Malaysian Chapter (myIPS), 2015 to date.
4. Member of the King's College Engineers Association since 1998.

Appointments

Position	Duration
1. Assoc. Professor, Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, Faculty of Engineering, UPM.	Aug 2016 to date
2. Senior Researcher, Photonics Unit, Communication Technology, Telekom Research & Dev. (TMR&D), Cyberjaya.	Nov 2004 – Jul 2016
3. Satellite Engineer, International Network Development, Telekom Malaysia Bhd. (TM).	Apr 2001 – Oct 2004
4. Service Engineer, Corporate Global & Government Div, TM Miri, Sarawak.	Nov 1998 – Mar 2001

Publications

Journals (30 recent journals)

1. C. B. M. Rashidi, S. A. Aljunid, A.K. Rahman, M.S. Anuar, **S. Yaakob**, "Effective Design for Optical CDMA Based on Radio over Fiber (RoF) Technique", MATEC Web of Conferences, Volume, Issue, Pages, 2016.
2. **Syamsuri Yaakob**, Sevia Mahdaliza Idrus, Norhakimah Md. Samsuri, Muhammad Zamzuri Abdul Kadir, M.S. Salleh and Gee-Kung Chang, "Selective delivery of broadband wireless and wired services in an integrated ROF-PON system using dual-sideband optical carrier suppression", Microwave optical technology letter, Volume 58, Issue 7, pages 1768–1773, 2016, DOI: 10.1002/mop.29902.
3. M. S. Salleh, A. S. M. Supa'at, S. M. Idrus, **S. Yaakob**, and Z. M. Yusof, "Flexible 16 × 10 Gbps All-Optical Broadcast And Multicast TWDM Passive Optical Network", IEEE Photonic Journal, Volume: pp, Issue: 99, 13th Jul 2015, DOI: 10.1109/JPHOT.2015.2456058.
4. M. S. Salleh, A. S. M. Supa'at, S. M. Idrus, **S. Yaakob**, and Z. M. Yusof, "Flexible broadcasting and Multicasting in 4λx10Gb/s AOPR TWDM PON system", Optik - International Journal for Light and Electron Optics, Accepted 20 Aug 2014, DOI: 10.1016/j.ijleo.2014.08.076.

5. M. S. Salleh, A. S. M. Supa'at, S. M. Idrus, **S. Yaakob**, and Z. M. Yusof, "Wavelength Tuning Free in OLT Downstream Multicasting 4λx10Gb/s TWDM PON system", *Journal of Computer Networks and Communications*, vol. 2014, Article ID 483249, 7 pages, 2014. doi:10.1155/2014/483249.
6. **Syamsuri Yaakob**, Sevia Mahdaliza Idrus, Norhakimah Md Samsuri, Muhammad Zamzuri Abdul Kadir, Romli Mohamad and Mohd Azmi Ismail, "40GHz ROF Downlink System with SFP Modules", *Microwave Optical Technology Letter*, Volume 56, Issue 4, pages 900–903, April 2014.
7. R. Mohamad, S.M. Idrus, A.S. Supaat, **S. Yaakob**, A.K. Zamzuri, S.N.A. Sukito, Millimeter wave carrier generation based on Brillouin fiber laser with improved tuning capability, *Optik - International Journal for Light and Electron Optics*, Vol. 125, Issue 1, Pages 205–207, 2013.
8. **Syamsuri Yaakob**, Muhammad Zamzuri Abdul Kadir, Sevia Mahdaliza Idrus, Norhakimah Md Samsuri, Romli Mohamad and Nazif Emran Farid, "On the carrier generation and HD signal transmission using the millimeter-wave radio over fiber system", *Optik Elsevier*, Volume 124, Issue 23, December 2013, Pages 6172–6177.
9. Abdullah .O. Aldhaibani, **S. Yaakob**, R. Q. Shaddad, S. M. Idrus, M. Z. Abdul Kadir, A. B. Mohammad, "2.5 Gb/s Hybrid WDM/TDM PON Using Radio over Fiber Technique", *Optik Elsevier*, Volume 124, Issue 18, September 2013, Pages 3678–3681.
10. Norliza Mohamed, Sevia Mahdaliza Idrus, Abu Bakar Mohammad, **Syamsuri Yaakob**, "Development and Demonstration of 12.4 GHz SiGe HBT Mixer for Radio over Fiber Applications", *WSEAS Transactions on Circuits and Systems*, Issue 10, Volume 11, October 2012.
11. Y.G. Shee, M.H. Al-Mansoori, **S. Yaakob**, A. Man, A. K. Zamzuri, F. R. Mahamd Adikan, and M.A. Mahdi, "Millimeter wave carrier generation based on a double-Brillouin-frequency spaced fiber laser," *Optics Express*, vol. 20, no. 12, pp. 13402-13408, 2012.
12. N. Mohamed, S. M. Idrus, A. B. Mohammad, H. Harun, R. Mohamad3 and **S. Yaakob**, "Frequency Up-Conversion Technique for Radio Over Fiber (RoF) Remote Antenna Unit Configuration", *The Open Electrical & Electronic Engineering Journal*, 2012, 5, 00-00.
13. **Syamsuri Yaakob**, Muhammad Zamzuri Abdul Kadir, Romli Mohamad, Mohamed Razman Yahya, Mohd. Ridzuan Mokhtar, Hairul Azhar Abdul Rashid, "Minimal optimization technique for radio over fibre WLAN transmission in IM-DD optical link" *Microwave Optical Technology Letter*, Vol. 52, No. 4, pp. 812-815, 2010, DOI 10.1002/mop.
14. Y. G. Shee, M. A. Mahdi, M. H. Al-Mansoori, **S. Yaakob**, R. Mohamed, A. K. Zamzuri, A. Man, A. Ismail, S. Hitam, "All-Optical Generation of 21 GHz Microwave by Incorporating a Double Brillouin Frequency Shifter", *Optics Letters*, Vol. 35, No. 9, pp. 1461 - 1463, 2010.
15. Shee Yu Gang, M. A. Mahdi, M. H. Al-Mansoori, Nor Azura Ahmad Hambali, M. Z. Abdul Kadir, Romli Mohamad, **Syamsuri Yaakob**, "Threshold reduction of stimulated Brillouin scattering in Photonic crystal fiber", *Laser Physic Journal*, Vol. 19, No. 12, pp. 2194–2196, 2009.
16. Mohd Nizam Osman, Zaiki Awang, **Syamsuri Yaakob**, Mohamed Razman Yahya and Abdul Fatah Awang Mat, "The Effects Of Multiple-Gated Layout On Power Consumption Of Pseudomorphic - HEMPTs", *Journal of Sustainability Science And Management*, Vol. 2, Issue 1, pp. 1-6, 2007.

Conference Proceedings (30 recent Conference Proceedings)

1. Z. Ibrahim, C. B. M. Rashidi, S. A. Aljunid, A. K. Rahman, **S. Yaakob**, "PIN and APD Analysis for Optical CDMA based on The Proposed Radio over Fiber (RoF) Approach", 2nd International Postgraduate Conference on Engineering, Science and Technology (IPCEST 2016), Bandung, Indonesia, Paper ID: 007-ipcest, May 24-25, 2016.
2. C. B. M. Rashidi, S. A. Aljunid, A.K. Rahman, M.S. Anuar, **S. Yaakob**, "Effective Design for Optical CDMA Based on Radio over Fiber (RoF) Technique", *The International Conference on Advanced Material Engineering & Technology (ICAMET 2015)*, Kaohsiung City, Taiwan, Dec 4 – 5, 2015.
3. N. Mohamed, S. M. Idrus, A. B. Mohammad, **S. Yaakob**, N. Yusoff, S. M. Sam, N. Ahmad, "Experimental Demonstration of a Downlink Remote Optical Local Oscillator for Radio over Fiber System", *International Conference on Photonics 2013 (ICP2013)*, Equatorial Hotel Melaka, October 26 - 28, 2013.
4. **S. Yaakob**, N. M. Samsuri, R. Mohamad, N. E. Farid, I. M. Azmi, S. M. Mohd. Hassan, N. Khushairi, S. A. Enche Ab Rahim, A. I. A Rahim, A. Rasmi, A. K. Zamzuri, S. M. Idrus and S. -H. Fan, "Live HD video transmission using 40GHz radio over fibre downlink system", *The 3rd International Conference on Photonics 2012 (ICP2012)*, Penang, October 1 - 3, 2012.
5. N. M. Samsuri, **S. Yaakob**, R. Mohamad and N. Khushairi, "Performance and Dispersion Analysis for 40GHz Multi Wavelength Optical Carriers for Radio over Fiber System", *The 3rd International Conference on Photonics 2012 (ICP2012)*, Penang, October1 - 3, 2012.

6. N. Mohamed, S. M. Idrus, A. B. Mohammad, and **S. Yaakob**, "Front-End Optical Receiver Utilizing Remote Local Oscillator for Radio over Fiber System" The 3rd International Conference on Photonics 2012 (ICP2012), Penang, October 1 - 3, 2012.
7. **S. Yaakob**, N. M. Samsuri, N. E. Farid, R. Mohamad A. Rasmi, A. K. Zamzuri, S. M. Idrus and S. -H. Fan, "Characterisation of DSB-OCS technique for 40GHz radio over fibre system" 18th Asia-Pacific Conference on Communications (APCC 2012), Jeju Island, Korea, October 15-17, 2012.
8. R. Mohamad, A.K. Zamzuri, **S. Yaakob**, S.M. Idrus, A.S. Supaat, "Internally Generated 21.6-GHz Millimeter Wave based on Brillouin Fiber Laser", 3rd International Conference on Electrical Engineering and Informatics (ICEEI 2011), Bandung, Indonesia, Paper ID: I3 – 4, July 17-19, 2011.
9. Abdullah Man, **Syamsuri Yaakob**, "Multi-Gigabit Wireless Transmission", IEEE International Conference on Antennas, Propagation and Systems (INAS 2009), December 3-5, 2009.
10. Abdullah Man, **Syamsuri Yaakob**, "Short-Range Point-to-Point Gigabit Wireless Transmission at 50 GHz, Malaysia International Conference on Communications (MICC09), December 14-17, 2009.
11. A.K. Zamzuri, M.A Mahdi, M.H Al-Mansoori, N.M Samsuri, A. Ahmad, R. Mohamad, **S. Yaakob**, "Spectral variation in Brillouin-Raman fiber laser", LEOS Annual Meeting Conference Proceedings, 2009 (LEOS '09), IEEE, 4-8 Oct. 2009, Belek-Antalya, Print ISBN: 978-1-4244-3680-4, pp. 793 – 794.
12. **Syamsuri Yaakob**, Mohd. Ridzuan Mokhtar, Muhammad Zamzuri Abdul Kadir, Romli Mohamad, Mohamed Razman Yahya, Hairul Azhar Abdul Rashid, "Hybrid radio over fibre system: Simultaneous direct modulation and external modulation transmission", International Conference on Electrical Engineering & Informatic, Makasar, Indonesia, November 13-14, 2008.
13. **Syamsuri Yaakob**, W.R. Wan Abdullah, Romli Mohamad, Mohamed Razman Yahya, Mohd. Ridzuan Mokhtar, Hairul Azhar Abdul Rashid, "Optical Power Justification for the WLAN 802.11g Radio Over Fibre System", International RF And Microwave Conference (RFM08), Kuala Lumpur, December 2-4, 2008.
14. M.N. Osman, Z. Awang, A. I. Abdul Rahim, **S. Yaakob**, M. R. Yahya, A. F. Awang Mat, "Kink Effect Phenomenon in I-V Characteristic of Multiple-Gated AlGaAs/InGaAs HEMTs Device" Asia-Pacific Microwave Conference 2007 (APMC07), Bangkok, Thailand, December 11-14, 2007.
15. Mohd Nizam Osman, Zaiki Awang, **Syamsuri Yaakob**, Mohamed Razman Yahya and Abdul Fatah Awang Mat, "Gain and Cut-off Frequency Analysis of Multiple-Gated AlGaAs/InGaAs HEMTs", Asia-Pacific Conference On Applied Electromagnetics 2007, Melaka, December 4-5, 2007.
16. **Syamsuri Yaakob**, Mohd Azmi Ismail, Romli Mohamad, Mohamed Razman Yahya, Abd.Fatah Awang Mat, Mohd. Ridzuan Mokhtar, Hairul Azhar Abdul Rashid, "EVM Measurements for the WLAN 802.11g Radio Over Fibre Downlink System with Electroabsorption Modulator at the RAU", International Conference On Robotics, Vision, Information, And Signal Processing Penang, Malaysia 28 – 30 November 2007.
17. W.R. Wan Abdullah, **S. Yaakob**, M.A. Ismail, A.K. Zamzuri, R. Mohamad, M. R. Yahya, A.F. Awang Mat, "Performance checking of the transmission in the direct modulation's Radio over Fiber System with an amplifier at the receiver site", International Conference On Robotics, Vision, Information, And Signal Processing Penang, Malaysia 28 – 30 November 2007.
18. **S. Yaakob**, W.R. Wan Abdullah, M.A. Ismail, A.M. Drees, R. Mohamad, M. R. Yahya, A.F. Awang Mat, M. R. Mokhtar, H.A. Abdul Rashid, "Transmission Performance Assessment for WLAN Direct Modulation Radio over Fiber System", International Conference on Electrical Engineering and Informatics (ICEEI2007), ITB, Bandung, Indonesia, paper ID: H-04, 17-19th Jun 2007.
19. **Syamsuri Yaakob**, Mohd Azmi Ismail, Romli Mohamad, Mohamed Razman Yahya, Abd.Fatah Awang Mat, Mohd. Ridzuan. Mokhtar, Hairul Azhar Abdul Rashid, "Adopting Electroabsorption Modulator for the WLAN 802.11a Radio Over Fibre System", IEEE International Conference On Semiconductor Electronics (ICSE2006), Prince Hotel & Residence, Kuala Lumpur, pp. 871-875, November 29 – December 1, 2006.
20. **S. Yaakob**, W.R. Wan Abdullah, M.N. Osman, A.K. Zamzuri, R. Mohamad, M. R. Yahya, A.F. Awang Mat, M. R. Mokhtar, H.A. Abdul Rashid, "Effect of Laser Bias Current to the Third Order Intermodulation in the Radio over Fibre System", International RF And Microwave Conference (RFM2006), Palm Garden Hotel, Putrajaya, paper ID: 097, 12 – 14th Sept 2006.
21. Mohd Nizam Osman, Zaiki Awang, **Syamsuri Yaakob**, Mohamed Razman Yahya and Abdul Fatah Awang Mat, "The Impact Of Multiple-Gated Layout On The Drain-Source Current Of Pseudomorphic-HEMTs", 2006 International RF And Microwave Conference, Putrajaya, 12 – 14th September 2006.

Books (If any)

Chapter in Books (If any)

Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Green Collaboration on Optical Radio Network (G-CORN) - RDTC/140872	-	2015-2016	TM
2.	Multi-service Wireless Access Network (MWAN) - RDTC/140868.WG1	-	2014-2015	TM
3.	Green Fibre Wireless 2 (G-FiWi 2) - RDTC/130839.WG1	-	2013-2015	TM
4.	Green Fibre Wireless 1B (G-FiWi 1B) - RDTC/120809.WG1	-	2012-2013	TM
5.	Green Fibre Wireless (G-FiWi) - RDTC/110774.WG1	-	2011-2012	TM
6.	Design, Development and Innovation of Off-Grid Solar Photovoltaic System for TM Remote Area Repeater (RepSOLAR) - RDTC/100756	-	2010-2012	TM
7.	GPON Optical Extender (GPEx) - RDTC/090728	-	2009-2010	TM
8.	Generation of Millimeter Wave Based on Nonlinear Interaction of Stimulated Brillouin Scattering - MOSTI/BGM/R&D/19(3), Brain Gain Malaysia project (with UPM)	232,500.00	2010	MOSTI
9.	Millimeter-wave Radio over Fibre (RoPa) System - RDTC/070682	-	2007-2009	TM
10.	A Design and Development of RF Over Fiber (RoF) Modulator Module – R05-0610-0	-	2005-2007	TM
11.	The Design & Development of Alumina ceramic-based multilayer Circuit Board for Wireless Device Applications in Access Network – R05-0606-0	-	2005-2006	TM

Awards/Recognition (Current)

No.	Name of awards	Title	Award Authority	Award Type	Year
1.	Best Journal Paper	Flexible 16 x 10 Gbps All-Optical Broadcast And Multicast TWDM Passive Optical Network	TMR&D Appreciation Day.	Company	2016
2.	Best Postgraduate Student, Ph.D	Millimetre-wave Radio over Fibre System with Selective Gigabit-per-second Signal Delivery	53th Convocation Ceremony, Universiti Teknologi Malaysia (UTM).	University	2014
3.	Winner, Best Broadband Partnership	Green Collaboration on Optical Radio Network (G-CORN)	Broadband Infovision Award, Amsterdam	International	2014
4.	Finalist, Best Broadband Access	Green Collaboration on Optical Radio Network (G-CORN)	Broadband Infovision Award, Amsterdam	International	2014

Innovation -
 Wireless

5.	Finalist, Anugerah Harta Inteltek Negara	A Millimetre-wave Data Distribution System	Perbadanan Harta Inteltek Malaysia (MyIPO)	National	2014
6.	Merit Award	Green Fiber-Wireless (G-FiWi)	Asia Pacific ICT Alliance Awards (APICTA)	International	2013
7.	Gold Medal	GPON Optical Extender (GPEx)	3rd Exposition On Islamic Innovation 2012 (i-Inova 2012), USIM	National	2012
8.	Silver Medal for R&D/Green Category	Green Fiber-Wireless	TMR&D Award Day	Company	2012
9.	Bronze Medal for Telecomm. Category	GPON Optical Extender (GPEx)	TMR&D Award Day	Company	2012
10.	Ph.D Industry Scholarship Award	Millimetre-wave Radio over Fibre System with Selective Gigabit- per-second Signal Delivery	Ministry of Higher Education (MOHE)	National	2011

Professional Services/Consultation

No	Year	Title	Authority	Amount
1.	2015- 2016	Industrial Advisory Panel (IAP)	FKEE, UTHM	-
2.	2014- 2016	Industrial Advisory Panel (IAP)	Pusat Pengajian Komputer & Perhubungan, UniMaP	-
3.	2015	Industrial Judge for FYP competition	FKEE, UTHM	-
4.	2013- 2014	Industrial Advisory Board Member (IAB)	Centre of Optical Wireless Applications (COWA), National Science Foundation (NSF), Georgia Institute of Technology (GIT), Atlanta, USA	-
5.	2013- 2015	Radio over Fibre (RoF) Standardisation	TMR&D, National Institute of Communication Technology (NICT), Japan, and Lightwave Communication Research Group, UTM	-
6.	2010	Radio Over Fibre (ROF) technology consultant	PTC, Infocomm. Research Alliance (IcRA), UTM	-

Patent
Granted

No.	Title	Country	File No.
1.	Solar Energy Station And Application	USA	US 9,300,170 B2
2.	Millimeterwave (MMW) Frequency Tuning Based on Temperature Dependence Characteristic of Brillouin- Erbium Fiber Laser	Malaysia	MY-153885-A

Patent

Granted

No.	Title	Country	File No.
3.	All-Optical Generation of 60 GHz Millimeter wave Using Multiple Wavelength Brillouin-Erbium Fiber Laser	USA	US 8,687,659 B2
4.	Tunable Millimetre Wave Generator	Malaysia	MY-150036-A
5.	Wavelength-Independent Amplifier Apparatus and Method of Operation	Singapore	SG 179324
6.	Stable Millimeter Wave Source For Broadband Wireless Signal Transmission Using Optical Fibre	USA	US 8,428,473 B2

Pending

No.	Title	Country	File No.
1.	System And Method For Generating Millimeter Wave Radio Over Fibre On Passive Optical Network	Malaysia	PI-2014704028
2.	Method And Apparatus For Remotely Generated Optical Local Oscillator Designed For Radio Over Fiber System	Malaysia	PI-2013003190
3.	60GHz Multi Wavelength All Optical Millimeter-wave Carrier for Wireless Local Area Network Using Spectrum Slicing	Malaysia	PI-2013000025
4.	40GHz Fibre Wireless System	Malaysia	PI-2013701995
5.	Next Generation Network of Hybrid Extended Ethernet Passive Optical Network (EPON) Access System	Malaysia	PI-2011005915
6.	System And Method Of All-Optical Generating Millimeter Wave	Malaysia	PI-2011006123
7.	A Communications System	Malaysia	PI-2011006302
8.	A System For Supplying Energy	Malaysia	PI 2011006301
9.	All-Optical Multiband Frequencies Generation	USA	PCT/MY2010/000063
10.	Ring Laser Apparatus and Method of Operation	Malaysia	PI-2010003102