

CURRICULUM VITAE

PROFESSOR DR. ALYANI ISMAIL

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Education

- Ph.D Electronics Engineering, University of Birmingham, UK (2006)
- M.Sc Communication, and Human-Centred Systems Engineering major in Communication, University of Birmingham, UK (2002)
- B.Eng (Hons) Electronic and Information Engineering, Huddersfield, UK (2000)

Areas of Interest

- Wireless, Mobile and Satellite Communication Devices
- Antenna and Electromagnetic Wave Propagation
- Microwave and Radar Communication Devices
- Wireless Sensor Network 5. High-frequency Sensors
- Defense and Security Systems

Professional Membership & Learned Society

1. Chair, Malaysia Council of E-Learning Coordinators of Public Universities (MEIPTA), 2016-2018
2. Executive Committee, IEEE AP/EMC/MTT Chapter (Malaysia) 2012-2013
3. Executive Committee, IEEE GOLD Affinity Group (IEEE) 2009-2010
4. Member, Institute of Electrical and Electronics Engineers (IEEE)
5. Member, International Association of Engineers (IAENG)
6. Graduate Member, Board of Engineers Malaysia (BEM)

Appointments

Position	Duration
1. Director, PUTRA International Centre, University Putra Malaysia	1 April 2024 - now
2. Academic Coordinator (Bachelor of Computer and Communication Systems Engineering)	1 Oct 2022 - now
3. Deputy Dean (Academic)	1 Oct 2018 – Sept 2021
4. Deputy Director (Teaching and Learning Innovation), Centre for Academic Development (CADE), UPM	1 March 2012 – May 2018
5. Head, Department of Computer and Communication Systems Engineering, Faculty of Engineering	1 September 2010 – 29 Feb 2012
6. Head, Wireless Devices and Propagation Laboratory, Centre of Excellence for Wireless and Photonic Networks, Faculty of Engineering, UPM	2009 - 2011
7. Coordinator for Franchise Program of Diploma in Multimedia	2007 - 2010

Technology Engineering, Faculty of Engineering, UPM

8. Head of Wireless Communication Engineering Laboratory, Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, UPM 2007 - 2010
9. Postgraduate Coordinator, Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, UPM 2007 – 2009
10. Academic Coordinator (Compuaction Engineering), Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, UPM 2007 - 2012
11. Head of Electronic Communication Engineering Laboratory, Dept. of Computer and Communication Systems Engineering, Faculty of Engineering, UPM 2006 -2007

Publications

JOURNAL								
AS MAIN/SENIOR/CORRESPONDING AUTHOR								
No	Author(s)	Title of Paper	Journal Name	Citation	Impact Factor/ Q	Year	Vol (series no.)	Page
1.	Quzwain, K., Yamada, Y., Kamardin, K., Abd Rahman, N.H., Ismail, A.	New Reflector Shaping Methods for Dual-Reflector Antenna	Radioengi neering	Scopus, Thomson ISI	Q4 0.864	2022	31(1)	39–53
2.	Kamarudin, S.I., Ismail, A., Sali, A., Ahmad, M.Y.	Highly Efficient Magnetic Resonance Coupling Using Circular Planar Spiral Coil for 5G Applications	Trends in Science	Scopus	-	2022	19	
3.	Zahraa R.M.Hajiyat, Alyani Ismail , AduwatiSali, Mohd. Nizar Hamidon	Design and analysis of helical antenna for short-range ultra-high-speed THz wireless applications	Optik (Elsevier)	Scopus, Thomson ISI	Q2 2.187	2021	243	1-12
4.	Zahraa R.M.Hajiyat, Alyani Ismail , AduwatiSali, Mohd. Nizar Hamidon	Antenna in 6G wireless communication system: Specifications, challenges, and research directions	Optik (Elsevier)	Scopus, Thomson ISI	Q2 2.187	2021	231	1-14
5.	Kamelia Quzwain, Alyani Ismail , Yudiansyah, Nadia Media Rizka, Aisvah	Implementation of double-layer loaded on octagon microstrip yagi antenna	Bulletin of Electrical Engineerin g and Informatic	Scopus	-	2021	10 (6)	3289-3296

Conference Proceedings / Academic Talks

CONFERENCE PROCEEDINGS						
No	Title of Papers	Role	Name of Conference	Level	Venue	Date
1.	A Compact Fractal-Based Asymmetrical Dipole Antenna For RFID Tag Applications	Corresponding Author	3rd Scientific Conference of Electrical Engineering (SCEE2018)	International	University of Technology Baghdad, Iraq	19-20 December 2018
2.	Magnetic Resonance Coupling for 5G Wireless Power Transfer Applications	Corresponding Author	The 3rd International Conference on Electrical, Electronic, Communication and Control Engineering (ICEECC 2018)	International	KSL Hotel, Johor Bahru, Malaysia	28-29 Nov 2018
3.	High Gain Coplanar UHF RFID Tag Antenna Using Inductively Coupled Feed for Metallic Applications	Corresponding Author	IEEE 12th Malaysia International Conference on Communication 2015	International	Kuala Lumpur, Malaysia	23-25 Nov 2015
4.	UHF RFID Split-Ring Resonator Tag Antenna Inductively Coupled Feed for Metallic Object	Corresponding Author	IEEE 12th Malaysia International Conference on Communication 2015	International	Kuala Lumpur, Malaysia	23-25 Nov 2015
5.	Gain Enhancement of Octagon Microstrip Yagi Antenna Utilizing 1-D Photonic Crystal (PCs) Cover	Corresponding Author	International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2015)	International	Bandung, Indonesia	5-7 October 2015

Patents (If any)

PATENT					
No.	Title of Invention	Role	Type of Intellectual Property Rights	Registration No	Year
1.	Ultra-Wide Bandpass Filter	Leader	Patent Granted	MY161816-A	2008
2.	A Dielectric composite and method for producing the same	Leader	Patent Filed	PI 2010002713	2010
3.	Cross border Monitoring and Alert System for Fishing Boat	Leader	Copyright	UPM/100-45/2C	2016
4.	Intelligent Fish Grading Mechanism Using Image-Based Artificial Intelligence For Aquaculture Farm	Leader	Copyright	LY2023W04587	2023
5.	Ethoshunt (MANUAL)	Member	Copyright	LY2018003343	2018
6.	Ethoshunt - Source Code and Object Code	Member	Copyright	LY2018003342	2018
7.	LoRa with Image Sensor for Mangrove Monitoring	Member	Copyright	LY2018006889	2018
8.	A Ferrite Thick Film Antenna and A Method of Producing Thereof	Member	Patent Filed	PI2017702141	2017
9.	Single-core Fiber Mach-Zehnder Interferometric Comb Filter	Member	Patent Filed	PI 20122000683	2012

Research Grants

RESEARCH PROJECTS						
No	Title	Role	Level/Collaboration	Sponsor body	Amount (RM)	Year/Status
1.	Public Perception on Electromagnetic Field (EMF) Emissions from 5G Radio Communication Infrastructure and Consumer Premise Equipment (CPE) in Malaysia (EMFERCICE)	Leader	Inter-University/UMT	Malaysian Communication and Multimedia Commission (MCMC)	10,000	1 November 2022 to 31 July 2023 (On-going)
2.	Flexible and Reconfigurable Learning Eco-Space for Brain-Friendly Idea Farm with Intersection of Art and Technology	Leader	Inter-faculty/Fac. Of Engineering/Fac. Of Architecture and Design/Fac. Of Education	Geran Inovasi Pengajaran dan Pembelajaran	30,000	15 Nov 2018 – 14 Nov 2020 (On-going)
3.	Highly Efficient RF Energy Harvesting for Wireless Sensor Network Application	Leader	Inter-University/UTEM	Geran Putra	20,000	1 June 2016 – 30 May 2018 (On-going)
4.	Wave Absorption Characterization of Renewable Resource Green materials as Bio-substrates at RF and Microwave Frequencies	Leader	Inter-University/UTHM	FRGS - Ministry of Education Malaysia	98,000	1 July 2014 – 30 June 2016 (Completed)
5.	Authentication of Halal Logo Through the use of Smart Holographic Seal for Halal Products Packaging	Leader	Inter-institute/department Faculty of Engineering, Faculty Economy and Management, Halal Product Research Institute	ERGS – Ministry of Education Malaysia	139,300	1 Jun 2013 – 30 Nov 2015 (Completed)

Community or Industry Projects/Grants

PROJECT/LINK WITH INDUSTRY WITH IMPACT							
No	Name of project	Role	Institution	Funds	Year	Status	Impact/ Activites
1.	Exploring New Wireless Sensor Technology for Traceability and Tracking System towards achieving Total Halal Solution	Leader	Ministry of Information, Communication and Culture (KKMM)	RM 2.7 million	2012 – 2014	Completed	An EPU funded project through KKMM completed with handover of P4Halal system to JAKIM that was able to track and trace supplier chain and authenticate true products
2.	Automatic Location Tracking	Leader	Royal Malaysian	RM20,000 (in-kind for GPS test)	2015	Completed (some parts)	A final year project. Approved by Panglima Tentera Laut Diraja Malaysia for project to deliver

	And Alert System For Fishing Boats		Navy (TLDM)	equipments, boats and TLDM personnel)		continued)	experiment on-site with TLDM equipments and personnel. Later on, TLDM offered UPM to create local system to track TLDM's boat. Project is on-going and classified
3.	DBP Information Technology Dictionary: E-Learning	Terms Maker (Penggub al Istilah)	Dewan Bahasa dan Pustaka (DBP)	Fully funded and Honorarium	2017-2018	Completed	Creating and revising terms, meaning and description for the dictionary to be published by DBP
4.	Learning Technologies	Expert	Closer Still Media, United Kingdom and Universal IT	-	2017	Completed	Linkage to include Malaysia as co-organizer for Learning Technologies Exhibition and Conference in Singapore and London