



UNIVERSITI PUTRA MALAYSIA

CURRICULUM VITAE

A. Biodata

- a. Name: ZURAIDAH BINTI ZAN
- b. Department: COMPUTER & COMMUNICATION SYSTEMS ENGINEERING
- c. Faculty: FACULTY OF ENGINEERING
- d. Field of Specialization: Optical Communication (Systems and Devices), Modulation Techniques, Optical Code Division Multiplexing (OCDMA), Optical Orthogonal Frequency Division Multiplexing (OFDM), Digital Signal Processing, Direct Detection, Coherent Detection Schemes and Polarization Diversity Receiver.
- e. Staff Card Number: T01446
- f. Identity Card Number (New): 801109-10-5288
- g. Date of Birth: 09 November 1980
- h. Contact:
 - Office : 03-8946 4650 Fax: 03-8656 7127
 - Mobile Phone: +6016-3287044
 - E-mail: zuraidahz@upm.edu.my
- i. Current Position:
 - Grade: DS51
 - Date of Present Appointment: 16 August 2014
- j. Competency Level Assessment (Penilaian Tahap kecekapan):
 - TK: N/A Level: N/A Year Taken: N/A

B. Education and academic qualification

Degree	Class/Achievement	University Awarded	Year
PhD (or equivalent)	Awarded	Monash University, Australia	2014
Master	Awarded: Master of Science	Universiti Kebangsaan Malaysia	2007
First Degree	Second Class Upper	Universiti Putra Malaysia	2003

C. Administrative duties and other relevant appointment

No.	Position	Department/Faculty/Other Institution	Year	Duration
	N/A	N/A	N/A	N/A

D. Academic awards and recognition

No.	Award/Recognition	Organisation Awarded	Date
1.	Perkhidmatan Cemerlang	UPM	16/12/2013

E. Academic duties/committee members

No.	Title	Level (International/National/University/Faculty/Department)	Year
1.	Executive Committee	National/Institute of Electrical & Electronics Engineers (IEEE) – Young Professional	2015
2.	Committee	Department/2016-2020 Syllabus Preparation	2014-2015
3.	Examiner	Department- Final Year Project	2014/2015
4.	Committee	Department – Self Assessment Report Preparation	2015
5.	Co-Supervisor	Department – Final Year Projects (2 Students)	2014/2015
6.	Associate Researcher	University – Pusat Penyelidikan Wireless & Photonics Network Research Centre (WiPNET).	2014/2015
7.	Chairperson	Department – Final Year Project Seminar	2014
8.	Reviewer	National – 2 nd International Conference on Defense and Security Technology, DSTC 2014	2014

F. Teaching activities: Tutorial & Lab Instructor

No.	Code and Name of Courses	Credit Hour	Number of Students	Teaching Assessment	Semester/Academic Year
1.	ECC3001 Engineering Mathematics	2	59	Not Available	2014/2015
2.	ECC3109 Digital Communication	1	13	Not Available	2014/2015
3.	ECC3109 Digital Communication	1	19	4.29	2013/2014
4.	ECC3601 Optical Communication Systems	2	52	4.29	2013/2014
5.	ECC3001 Engineering Mathematics I	2	45	4.41	2013/2014
6.	ECC3001 Engineering Mathematics I	2	43	4.12	2012/2013
7.	ECC3601 Optical Communication Systems	2	30	4.12	2011/2012
8.	ECC3104 Electronic Devices and Circuits	2	39	4.29	2011/2012
9.	KKK 3905 Mini Project Evaluator	2	80	Not Available	2007
10.	KKK3902 Electronic Laboratory (Analogue)	2	41	Not Available	2006
11.	KKK3311 Electronic Communication Theory	2	41	Not Available	2006
12.	KEE 3114 Digital Circuit	2	Not Available	Not Available	2003/2004

G. Supervision of students

Program Level	Name of Students and Title of Thesis/Project	Main Supervisor/Co-supervisor	Status (Completed/Ongoing)	Year Graduated
PhD	N/A			
Master	N/A			
Bachelor	Lai Chan Weng: The Effect of Chromatic Dispersion in SAC-OCDMA System using Super-Structure Fiber Bragg Grating Encoder/Decoder Design	Co-Supervisor	Ongoing	N/A
Bachelor	Wong Chee Hong: Development of Reconfigurable OFDM Signal Generation and Processing Codes for Direct Detection Optical OFDM Systems	Co-Supervisor	Ongoing	N/A

H. Publications

Total No. of Publications = 14

- No. of Journals = 3
 - ❖ No. of Cited Journals = 3
 - ❖ No. of Non-Cited Journals = 0
 - ❖ No. of Impact Factor Journals = 2
- No. of Submitted Journal = 3
- No. of Book(s)/Chapter(s) in Books = 0
- No. of Conference Proceedings Paper = 11
- No. of Seminar Paper Presented (orally) = 2
- No. of Other Presentation (Poster/Product/Exhibition/Showcase) = 1
- No. of Other Equivalent Outcomes = 1 (Magazine: Laser Focus World)

a. Cited Journals

1. Schmidt, B. J. C., **Z. Zan**, L. Du, & A. J. Lowery (2010). "120 Gbit/s over 500-km using single-band polarization-multiplexed self-coherent optical OFDM." *Journal of Lightwave Technology* **28**(4): 328-335. **ISI Impact Factor: 2.862, Q1**
2. **Z. Zan**, & A. J. Lowery (2010). "Experimental demonstration of a flexible and stable semiconductor laser linewidth emulator." *Optics Express* **18**(13): 13880-13885. **ISI Impact Factor: 3.525, Q1**
3. S.A. Aljunid, **Z. Zan**, S.B.A. Anas, M. K. Abdullah, A New Code for Optical Code Division Multiple Access Systems, *Malaysian Journal of Computer Science*, vol.17, no. 2, Dec 2004. **JCR MyCite: 0.094, Q4**

b. Non-cited Journal

N/A

c. Book(s)

N/A

d. Chapter(s) in Book

N/A

e. Proceeding(s)

1. **Z. Zan**, A. J. Lowery, & M. Premaratne (2008). Laser RIN and linewidth requirements for direct detection optical OFDM. *Lasers and Electro-Optics CLEO 2008*, San Jose.
2. Schmidt, B. J. C., **Z. Zan**, L. Du, & A. J. Lowery (2009). 100Gbit/s transmission using single-band direct-detection optical OFDM. *Optical Fibre Communication Conference (OFC/NFOEC)*. San Diego, CA, Optical Society of America (OSA). **Post-deadline paper: PDPC3. ~ Highly prestigious conference in the field.**
3. **Z. Zan**, L. Du, & A. J. Lowery (2010). Experimental demonstration on the reduction of linewidth impact in a self-heterodyne optical OFDM system. *Optical Fibre Communication Conference (OFC/NFOEC) (OSA)*. San Diego Convention Center: JThA8. ~ **Highly prestigious conference in the field.**
4. R.K.Z. Sahbudin, M.K. Abdullah, **Z. Zan**, M.A. Mahdi, "Hybrid Subcarrier Multiplexing/Spectral-Amplitude-Coding Optical CDMA System", 14th IEEE International Conference On Telecommunications (ICT) and 8th IEEE Malaysia International Conference on Communications (MICC), 14th-17th May 2007, Penang Malaysia
5. **Z.Zan**, S.A. Aljunid, M.K. Abdullah, R.K.Z. Sahbudin, S. Shaari, "The Power Difference Effects In The New Detection Technique For Sac-Ocdma System Performance", **IntEC2007 2nd International Engineering Convention 2007, Jeddah, Saudi Arabia, 10th-14th March 2007**

6. **Z.Zan**, S.A. Aljunid, M.K. Abdullah, R.K.Z. Sahbudin, M.H. Yaacob, M. Mokhtar, S. Shaari, "*Effects of the Power Differences in the AND-Subtraction Detection Technique in SAC-OCDMA System Performance*", Proceeding 2006 IEEE International Conference on Semiconductor Electronics, ICSE2006 (Kuala Lumpur), Malaysia, pp 996-1000
7. **Z.Zan**, M.K. Abdullah, S.A. Aljunid, R.K.Z. Sahbudin, M.H. Yaacob, M. Mokhtar, S. Shaari, "*Wavelength Shifting in the Fiber Bragg Grating (FBG) Based Encoder and Decoder Modules for Spectral Amplitude Coding Optical Code Division Multiple Access (SAC-OCDMA) Systems*" , Proceeding 2006 IEEE International Conference on Semiconductor Electronics, ICSE2006 (Kuala Lumpur), Malaysia, pp 1001-1005
8. **Z. Zan**, S.A. Aljunid, M.H. Yaacob, S.B.A. Anas, M.K. Abdullah, S. Shaari. *Design of parallel and serial configurations of encoder and decoder modules for spectral amplitude coding (SAC) optical code division multiple access (OCDMA) based on fiber bragg gratings (FBGs)*, IEEE 7th Malaysia International Conference on Communication, vol.2, 2005 Page (s): 650-654
9. **Zan, Z.**; Aljunid, S.A.; Yaacob, M.H.; Abdullah, M.K.; Shaari, S.; *Design configuration of encoder and decoder modules for modified double weight (MDW) code spectral amplitude coding (SAC) optical code division multiple access (OCDMA) based on fiber Bragg gratings*, Second International Conference on Advanced Optoelectronics and Lasers, CAOL2005 (Ukraine), Vol.2, 12-17 Sept. 2005 Page(s):249 - 252
10. **Z.Zan**, M.K. Abdullah, S.A. Aljunid, M.H. Yaacob, S.B.A. Anas, and S. Shaari, *Design of Encoder and Decoder Modules based on Fiber Bragg Gratings (FBGs) for Spectral Amplitude Coding (SAC) Optical Code Division Multiple Access (OCDMA) System*, International Conference on Instrumentation, Communication and Information Technology (ICICI) 2005 Proc., August 3rd -5th , 2005, Bandung, Indonesia
11. **Zan, Z.**; Hitam, S.; Adnan, W.A.W.; Yaacob, M.H.; Abdullah, M.K.; *Design of an optical fiber link employing QPSK format with SCM scheme*, The 9th Asia-Pacific Conference on Communications, (APCC), Vol. 1, 21-24 Sept. 2003 Page(s):180 - 182

f. Seminar Papers Presented (orally)

1. **Z.Zan**, S.A. Aljunid, M.K. Abdullah, R.K.Z. Sahbudin, M.H. Yaacob, M. Mokhtar, S. Shaari, "*Effects of the Power Differences in the AND-Subtraction Detection Technique in SAC-OCDMA System Performance*", Proceeding 2006 IEEE International Conference on Semiconductor Electronics, ICSE2006 (Kuala Lumpur), Malaysia, pp 996-1000
2. **Z.Zan**, M.K. Abdullah, S.A. Aljunid, R.K.Z. Sahbudin, M.H. Yaacob, M. Mokhtar, S. Shaari, "*Wavelength Shifting in the Fiber Bragg Grating (FBG) Based Encoder and Decoder Modules for Spectral Amplitude Coding Optical Code Division Multiple Access (SAC-OCDMA) Systems*" ,

Proceeding 2006 IEEE International Conference on Semiconductor Electronics, ICSE2006 (Kuala Lumpur), Malaysia, pp 1001-1005

3. **Z. Zan**, S.A. Aljunid, M.H. Yaacob, S.B.A. Anas, M.K. Abdullah, S. Shaari. *Design of **parallel and serial configurations of encoder and decoder modules for spectral amplitude coding (SAC) optical code division multiple access (OCDMA) based on fiber bragg gratings (FBGs)***, IEEE 7th Malaysia International Conference on Communication, vol.2, 2005 Page (s): 650-654

g. Other Presentation (Poster/Product/Exhibition/Showcase)

1. **Zuraidah Zan**, “Optical Orthogonal Frequency Division Multiplexing (O-OFDM) System”, Photonics Lecture Series, IEEE Photonics Society, January 2012.
2. **Z. Zan**, L. Du, & A. J. Lowery (2010). Experimental demonstration on the reduction of linewidth impact in a self-heterodyne optical OFDM system. Optical Fibre Communication Conference (OFC/NFOEC) (OSA). San Diego Convention Center: JThA8. ~ **Highly prestigious conference in the field.**
3. **Annual Postgraduate forum presentation and poster session**, Department of Electrical and Computer Systems Engineering, Monash University, Australia, 16/08/2010 ~ **Presenter.**
4. **Annual Postgraduate forum presentation and poster session**, Presenter, Department of Electrical and Computer Systems Engineering, Monash University, Australia, **28/09/2009 ~ Presenter.**
5. **Annual Postgraduate forum presentation and poster session**, Presenter, Department of Electrical and Computer Systems Engineering, Monash University, Australia, **Oct. 2008 ~ Presenter.**

h. Other Equivalent Outcomes (Monograph/Module/Popular Writing & Article/Design etc)

1. “Adjustable Linewidth Laser Simplifies, Reduces Testing Cost”, Laser Focus World Magazine, 01/08/2010.

I. Research Activities

a. Research Grants

No.	Title	Role (Main/Co-researcher)	Sponsor/Grant and Amount (RM)	Period (year)	Status (Completed/Ongoing)
	N/A				

b. Patent/Commercialisation

No.	Title	Date	File/Patent No.	Status (Granted/Pending)

	N/A			
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J. Consultation activities

a. Consultation Project(s)

No.	Name of Consultant(s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/Ongoing)
	N/A					

b. Consultation Report(s)

No.	Name of Consultant(s)	Title of Report	Sponsor	Date Submitted
	N/A			

K. Extension and other public services

No.	Name of Activity/Project/Program	Organiser	Place	Date
1.	Majlis Perkongsian Teknik Pendidikan dari Muallimah Mazni Abd Kadir, Mount Hira Islamic College, Melbourne, Australia	PIBG – Sekolah Rendah Integrasi Tahfiz Ilmuan (SRITI)	Dewan, Sekolah Menengah Integrasi Tahfiz Ilmuan	30/12/2014
2.	Majlis Sambutan Hari Raya Aidilfitri PIBG & FACE	PIBG & FACE	Makmal Taman Asuhan dan Perkembangan Kanak-kanak UPM	2014
3.	Perbincangan Aktiviti Anak-anak di FACE	PIBG & FACE	Makmal Taman Asuhan dan Perkembangan Kanak-kanak UPM	8/4/2014
4.	Gotong-Royong Pembersihan Kawasan Taman Asuhan	PIBG & FACE	Makmal Taman Asuhan dan Perkembangan Kanak-kanak	2013

			UPM	
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L. Involvement in professional association/organization/body

No.	Name of Association/Organization/Body	Role (President/Secretary/Committee Member/Ordinary Member)
1.	IEEE Young Professional	Executive Committee – Communication & Publicity
2.	IEEE Photonics Society	Ordinary Member
3.	IEEE	Ordinary Member
4.	Pusat Penyelidikan Wireless & Photonics Network Research Centre (WiPNET), Faculty of Engineering, UPM	Associate Researcher

M. Involvement in student development

No.	Name of Program	Organiser	Role (Facilitator/Speaker/Others)	Date
1.	Ceramah: Gejala Sosial dan Raudhatus Sakinah oleh Pn. Rosmawati Zainal (Ummi Ros)	Jawatan Kuasa Surau Fakulti Kejuruteraan	Inviter & PIC	23 November 2011

Name: _____

Signature: _____

Date: _____

I hereby certify that the information above is true.

Name: _____
(Head of Department)

Signature: _____

Official Stamp:

Note: Please attach related supporting documents