CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI (F	A. BUTIR-BUTIR PERIBADI (Personal Details)				
Nama Penuh (Full Name)	RIBHAN ZAFIRA BI RAHMAN	NTI ABDUL	Gelaran <i>(Title): Dr</i>		
No. MyKad / No. Pasport (Mykad No. / Passport No.)	Warganegara (Citizenship)	Bangsa (Race)	Jantina (Gender)		
730813-01-5790	MALAYSIA	MALAY	FEMALE		
Jawatan (Designation)	Senior Lecturer	Tarikh Lahir (Date of Birth)	13 August 1973		

Alamat Semasa (Current Address)	Jabatan/Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)
26, Jln Prima Saujana 1/4H, Tmn Prima Saujana, 43000 Kajang, Selangor.	Department. of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia 43400 UPM Serdang, Selangor.	E-mail: ribhan@upm.edu.my URL: H/P: 013-3331308
Tel: 013-3331308	Tel: 03-89464449 Fax: 03-89466327	

B. KELAYAKAN AKADEMI	K (Academic Qualification)		
Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhusususan (Area of Specialization)
phD in Electrical Engineering	Universiti Teknologi Malaysia, Malaysia	2013	Electrical
M.E. in Electrical Eng.	Universiti Teknologi Malaysia, Malaysia	2001	Electrical
B.Eng. (Hons) in Electrical and Electronics Engineering	Liverpool John Moores University, UK	1998	Electrical and Electronics
Diploma In Electrical And Electronic Engineering	Institut Teknologi Mara, Malaysia	1995	Electrical and Electronics

C. KEMAHIRAN BAH	ASA (Language Profici	iency)			
Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English				\checkmark	
Bahasa Melayu					
Chinese					
Lain-lain (other):					

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN

(Scientific experience and Specialisatio				
Organization	Position	Start Date	End Date	Expertise
Universiti Putra Malaysia	Senior Lecturer	12/11/2013	present	Control Engineering
Universiti Putra Malaysia	Lecturer	3/7/2001	11/11/2013	Control Engineering
Universiti Putra Malaysia	Tutor	1/4/1999	1/7/2001	Control Engineering

E. PEKERJAAN (Employ	ment)			
Majikan / <i>Employer</i>	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
MATSUSHITA TELEVISION (M) Sdn. Bhd, Shah Alam	Technician	Research and Development	Nov 1995	August 1996
TERASAKI ELECTRIC (M) Sdn. Bhd, Shah Alam	Production Operator	Operation	July 1995	Nov 1995
SONY-TV Sdn. Bhd	Practical Training		April 1993	May 1993

F. ANUGERAH DAN HADIAH (Honours and Awards)				
Name of awards	Title	Award Authority	Award Type	Year
Academic Awards				
Non-Academic Awards				
Awards of Merit				

G. SENARAI PEN	BITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, m	uka
surat dan tahun d	rbitkan) (List of publications – author (s), title, journal, volume, page and year published)	
Journal	1. Jasronita Jasni, Samsul Bahari M.N., Ribhan Zafira A.R., Di	agnosis
	Kerosakan Litar Menggunakan Pspice dan Rangkaian Neural	Tiruan
	- published in Technology Journal, UTM, No. 39, Dec 2003	3, ISSN
	0127-9696, pp 75-86.	
	2. Ribhan Zafira A R, Rubiyah Y, Marzuki K, Faisal I, Fuzzy Ma	odelling
	using Genetic Algorithm and Recursive Least Square for	Process
	Control Application - published in International Journal of Sin	nulation
	Systems, Science & Technology, ISSN: 1473-804x online, 147	3-8031,
	pp 34-46.	
	3. Azura Che Soh, Erny Aznida Alwi, Ribhan Zafira Abdul R	ahman
	and Li Hong Fey, Effect of Fuzzy Logic Controller Implementa	ition on

<u>г</u>	
	<i>a Digitally Controlled Robot Movement</i> , Kathmandu University Journal of Engineering, Science and Technology, Vol. I, No. V, 2008, 28-39.
4.	Azura Che Soh and Ribhan Zafira Abdul Rahman, Fault Detection
	and Diagnosis for DC Motor in Robot Movement System using Neural
	Network. The Pacific Journal of Science and Technology (PJST),
	Akamai University, USA, 10(1), 2009, 35-43.
5	Rubiyah Yusof, Ribhan Zafira Abdul Rahman, Marzuki Khalid,
	Faisal Ibrahim, Optimisation of Fuzzy Model using Genetic Algorithm
	for Process Control Application – accepted for publication to Journal
	of Franklin Institute, Elsevier
6	Ribhan Zafira Abdul Rahman, Azura Che Soh, Fadzlina
	Muhammad, Fault Detection and Diagnosis for Continuous Stirred
	Tank Reactor using Neural Network, Kathmandu University Journal of
	Science, Engineering and Technology Vol.6. No II, November, 2010,
	pp.66-74
7	Rubiyah Yusof, Ribhan Zafira Abdul Rahman and Marzuki Khalid,
/.	Fault Detection and Diagnosis for Process Control Rig using Artificial
	Intelligent, ICIC Express Letters, An International Journal of Research
	and Surveys, Vol 4, No 5(B), Oct 2010, ICI International 2010 ISSN
	1881-803X, pp 1811-1816.
Q	
0.	Rubiyah Yusof, Ribhan Zafira Abdul Rahman , Marzuki Khalid, and
	Mohd Faisal Ibrahim, Optimization of Fuzzy Model using Genetic
	Algorithm for Process Control Application, Journal of the Franklin Institute Flamion Viel 248 issues 7 (Sept 2011) pp. 1717-1727
	Institute, Elsevier, Vol 348 issues 7, (Sept 2011) pp. 1717-1737. IF:
9.	Mohd. Khair H., Aishwarya. K., Ribhan Zafira. A.R. and Siti Anom
	A, Design a PID Controller for a Constant Speed of Combustion
	Engine, Australian Journal of Basic and Applied Sciences, ISSN
	1991-8178 5(12), 2011, pp 1586-1593.
10	MV Hagger D 7 Abdul Dahman A Cha Sah M7 A Ab Vadir
10.	M.K.Hassan, R. Z. Abdul Rahman , A. Che .Soh., M.Z.A.Ab Kadir,
	Lightning Strike Mapping For Peninsular Malaysia Using Artificial
	Intelligence Techniques, Journal of Theoretical and Applied
	Information Technology, 34(2), 2011, pp 202-214.
11.	A.Che Soh, R. Z. Abdul Rahman, M.Z.A.Ab Kadir and N.S. Mohd
	Sharif, Development of the Lightning Location Mapping System Using
	Fuzzy Logic Techniques, International Review on Modelling and
	Simulations (IREMOS), 4(6), 2011, Part C.
	Sinductons (nebitos), 1(0), 2011, 1 ut C.
12	Azura Che Soh, Mohd Khair Hassan, Ribhan Zafira Abdul Rahman,
12.	A Fuzzy-Fault Classifier System for Malfunction Traffic Light System
	Classification, Journal of Theoretical and Applied Information
	Technology, 34(2), 2011, pp 226-240
13	Ribhan Zafira bt.Abdul Rahman, Tan Loo Pei, Azura Che Soh,
15.	Temperature Control of Portable Cooler, World Academy of Science,
	Engineering and Technology, ISSN 2010-3778, 72, pp 547-552, 2012
	(Scopus)
14.	A Che Soh, R.Z. Abdul Rahman, H. Md. Sarkan and L.T. Yeo,

	Intelligent Control of Twin-Rotor MIMO System Using Fuzzy Inference Techniques. International Review of Automatic Control (IREACO), 6(1), Jan 2013. (Scopus)
	 15. G.R. Lai, A.Che Soh, H.Md.Sarkan, R.Z.Abdul Rahman, M.K. Hassan, "Controlling Traffic Flow in Multilane-Isolated Intersection Using ANFIS Approach Technique," Journal of Engineering Science and Technology (JESTEC) Vol (10), No. 8(2015), 1009-1034.(Scopus) 16. A.J. Ishak, R.Z. Abdul Rahman, A.C. Soh, R. Shamsudin, S.A. Jalo, F.C. Lim and H.K. Lin, <i>Quality Identification Of Used Cooking Oil Based On Feature Fusion Of Gas Sensor And Color</i> International Journal of Control Theory and Applications (I J C T A), ISSN 0952-8091, 9(5), 2016, pp. 321-329 (Scopus)
	 17. Tanaselan Ramalu, Mohd Amran Mohd Radzi, Muhammad Ammirrul Atiqi Mohd Zainuri, Noor Izzri Abdul Wahab and Ribhan Zafira Abdul Rahman, Photovoltaic Based SEPIC Converter with Dual-Fuzzy Maximum Power Point Tracking for Optimal Buck and Boost Operations Energies, ISSN 1996-1073, 9(8), 2016, pp 1-17 (JCR – 2.077)
	18. N.F.Elya Saidon, Chikamune Wada, Siti A. Ahmad, Ribhan Zafira Abdul Rahman, Kiyotaka Eguchi, Yoshiyuki Tomiyama and Farida Izni Abd Rahman, Real-time Human Motion Analysis and Grasping Force using the OptiTrack System and Flexi-force Sensor, Pertanika Journal Science & Technology Vol 25(S): 69-76 (2017) (Scopus)
	19. Elya M.N, S.B. Mohd Noor, Ribhan Zafira A. R. and Syaril Azrad, Application of Sliding Mode Control with Extended High Gain Observer to stabilize the Underactuated Quadrotor System, Pertanika Journal Science & Technology Vol 25(S): 343-352 (2017) (Scopus)
Books/Monographs	Intelligent Fault Detection And Diagnosis Based On Optimized Fuzzy
	Model For Process Control Rig, phD Thesis, Universiti Teknologi Malaysia, 2014
Chapter in book	
Proceedings	 Ribhan Zafira A.R., Azura C.S., Erny A.A., Samsul Bahari M.N., J.B. Gomm, Process Fault Detection and Diagnosis Using A Dynamic Neural Networks Model, Proc of World Engineering Congress 2002, 22-24 July 2002, Kuching Sarawak, Malaysia. Mohd. Khair Hassan, Ribhan Zafira Abdul Rahman, Norhayati Hamid, Mohd Liakot Ali, Learning Aid for Electric Circuits Analysis with MATLAB based GUI, Proceeding, The Seventh Triennial AEESEAP Conference, Univ.Malaya. 8, 9 Dec 2003. Editorial Commitee Board, Proceedings of Student Conference on Research and Development SCORed 2003, IEEE Catalog Number: 03EX752C, ISBN: 0-7803-8174-2. Ribhan Zafira Abdul Rahman, Rubiyah Yusof, and Marzuki Khalid, Recursive Least Square and Fuzzy Modelling using Genetic Algorithm
	for Process Control Application, Proceeding AMS 2007, Phuket

Thailand, 27-30 Mac 2007, pp 388-393.
5. Ribhan Zafira A. R. , R.Yusof and M.Khalid, <i>Modelling of a Process</i>
Control Rig using Genetic Algorithm based Fuzzy Approach,
Malaysia-Japan International Symposium Advanced Technology,
MJISAT 2007, 12Nov-15Nov 2007, Kuala Lumpur.
6. R.Yusof, Ribhan Zafira A. R. and M.Khalid, <i>Fuzzy Modeling with</i>
Genetic Algorithm for Process Control Rig, - International Conference
on Modeling, Simulation and Applied Optimisation, ICMSAO 2009,
20 th Jan - 22 nd Jan 2009, Sharjah, U.A.E
7. Lai Guan Rhung, Azura Che Soh, Ribhan Zafira Abdul Rahman ,
Mohd Khair Hassan, Fuzzy Traffic Light Controller Using Sugeno
Method for Isolated Intersection, Proceedings of 2009 Student
Conference on Research and Development (SCOReD 2009), 16-18
Nov. 2009, UPM Serdang, Malaysia
8. Ribhan Zafira Abdul Rahman , Muhammad Shukor A. Wahab,
Development of a Robe Climbing Robot, Proc of World Engineering
Congress 2002, 2 nd -5 th August 2010, Kuching Sarawak, Malaysia,
pp283-288.
9. Rubiyah Yusof, Ribhan Zafira Abdul Rahman and Marzuki Khalid,
Fault Detection and Diagnosis for Process Control Rig using Artificial
Intelligent, Proceeding of The Third International Symposium on
Intelligent Informatics (ISII2010), 5-7 Sept 2010, Dalian, China.
10. Azura Che Soh, Ribhan Zafira Abdul Rahman, Lai Guan Rhung and
Haslina Md Sarkan, Traffic Signal Control Based on Adaptive Neural-
Fuzzy Inference System Applied to Intersection, Proceeding of 2011
IEEE Conference on Open Systems, 25-28 September 2011,
Langkawi, Malaysia.
11. Ribhan Zafira Abdul Rahman, Azura Che Soh and Siti Nur Naznin
Adnan, Lightning Characteristics & Mapping for Peninsular Malaysia
using Neural Network Method, Proceeding of The 3rd International
Conference on Computational Intelligence, Modeling and Simulation,
20-22 September 2011, Langkawi, Malaysia.
12. Ribhan Zafira Abdul Rahman and Nusrat Jahan Shoumy, Neural
Networks Controller for Two-Degree-Freedom Helicopter Control
System, Proceeding of The 2012 12th International Conference on
Control, Automation and Systems, 17-21 October 2012, ICC Jeju
Island, Korea.
13. Ribhan Zafira Abdul Rahman, Tan Loo Pei and Azura Che Soh,
Temperature Control of Portable Cooler, Proceeding of International
Conference on Electrical, Computer, Electronics and Communication
Engineering, 6-7 December 2012, Penang, malaysia, pp 547-552.
14. Ribhan Zafira Abdul Rahman, Rubiyah Yusof, and Fatimah Sham
Ismail, Model-based Fault Detection and Diagnosis Optimization for
Process Control Rig, Proceeding 9th Asian Control Conference
(ASCC), June 23-26, 2013, Istanbul, Turkey, ISBN: 978-1-4673-5768-
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15. Mohd Rafiuddin Mohd Nordin, Ribhan Zafira Abdul Rahman,
Mohd Khair Hassan, A. Che Soh and Siti Anom Ahmad, "Identify The
High And Low RFI Level Base On Image Processing With Gray Level
Co-Occurrence Method", World Research and Innovation Convention
of Engineering & Technology (WRICET), 25-26 Nov 2014, Putrajaya,
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	Malaysia.
	16. N. Mohamad Zaber, A.J Ishak, A. Che Soh, M.K. Hassan, R.Z. Abdul Rahman and Z. Zainal Abidin, "Control Positioning of Radio Telescope using PID Controller with Varying Parameters for High Precision Output", The 6th International Conference On Postgraduate Education (ICPE-6 2014), 17-18 Dec 2014, UTeM, Melaka
	17. S.A Jalo, A.J Ishak, A.C Soh, R. Z.A Rahman and R. Shamsuddin, "Optimising Effect of Frying Cycles on Cooking Oil Properties Using Particle Swarm Optimisation", The 2015 10th Asian Control Conference(ASCC 2015), May 31-3 June, 2015, Kota Kinabalu, Sabah, Malaysia
	 N.A. Abdullah, A.CheSoh, R.Z.Abdul Rahman, S.B. Mohd Noor, Analysis of a Gain Tuning PID Controller for Pressure Control in UCP Plant, 3rdInternational Symposium on Applied Engineering and Sciences (SAES2015) Universiti Putra Malaysia 23rd – 24thNov 2015
Other publications	1. Hossein Ghapanchi Zadeh, Asnor Juraiza Ishak, Azura Che Soh, Ribhan Zafira Abdul Rahman , Siti Anom Ahmad, Low Cost and Portable Multichannel Surface EMG Acquisition System, 2015
	2. Azura Che Soh, Asnor Juraiza Ishak, Mohd Khair Hassan,
	Ribhan Zafira Abdul Rahman, Siti Anom Ahmad, Umi
	Kalsom Mohamad Yusof, Rekabentuk Susun Atur Litar
	Bersepadu: Phyto-Herbal Electronic Nose, 2015
	3. Azura Che Soh, Hazlina Selamat, Ribhan Zafira Abdul Rahman , Asnor Juraiza Ishak, Siti Anom Ahmad, Hafiz Rashidi Harun@ Ramli, Ahmad 'Athif Mohd Faudzi, 2015 10th Asian Control Conference (ASCC) "Emerging Control Techniques for a Sustainable World", IEEE Catalog Number: CFP15832-ART, ISBN: 978-1-4799-7862-5 MAY 31-JUNE 3, 2015, Sutera Harbour Resort Kota Kinabalu, Malaysia
Computer software	

H. PROJEK PEN	H. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)						
Project No.	Project Title	Role	Year	Source of fund	Status		
	Fault Detection and	Project Leader	2003	UPM	Completed		
	Diagnosis using	-			_		
	Neural Networks						
	for CSTR						
	(RM10,000)						
	Development of	Researcher	2004-2006	MOHE	Completed		
	Hybrid Control for				-		
	Distillation Column						
	(RM117,000)						
	Modeling of	Project Leader	2010-2012	RUGS,	Completed		
	Process Control			UPM	_		
	using fuzzy Logic						

Hybrid Intelligence (RM63,000)Researcher2013ADevelopment Development of E-Nose Herbs Recognition System Based on Artificial Intelligence Technique (RM63,000)Researcher2012 - 2014RUGSCompletedModel-Based Calibration Engine (RM63,000)Researcher2012 - 2014RUGSCompletedIntelligence Technique (RM63,000)Researcher2012 - 2014RUGSCompletedIntelligent ecognition Techniques (RM30,000)Researcher2012 - 2014RUGSCompletedIntelligent Fingered Robotic Hand Design and Development for Prosthetic Application (RM174,000)Researcher2012-2014EScience FundCompletedFormulation of Algorithm to Classify Distinctive odors Pattern Receins using Hybrid Artificial Intelligence Techniques (RM121,500)Researcher2013-2015FRGSCompletedLightning Surges On Distribution Line and Its Effect OnResearcher2015-2017GP-IPBCompleted	Hybrid Model-Based Calibration Engine (RM63,000)20132013Development of E-Nose Recognition System Based on Artificial Intelligence Technique (RM63,000)Researcher2012 - 2014RUGSCompletedModel-Based Calibration System Based on Artificial Intelligence Technique (RM63,000)Researcher2012 - 2014RUGSCompletedIntelligence reused cooking oil using (RM30,000)Researcher2012 - 2014RUGSCompletedIntelligent reused cooking oil using (RM30,000)Researcher2012 - 2014RUGSCompletedIntelligent Five- Fingered Robotic Hand Development for Prosthetic Application (RM174,000)Researcher2012-2014Science FundCompletedFormulation of Algorithm to Classify Distinctive dors Pattern of Aromatic Plant Species using Hybrid Artificial Intelligence (RM121,500)Researcher2013-2015FRGSCompletedLightning Surges (RM121,500)Researcher2015-2017GP-IPBCompleted					
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RegenerativeBrakingStrategyforElectricVehiclesusingAdaptiveGenetic	Researcher	2015-2017	GP-IPS	Ongoing
Algorithm (RM20,000)				
Formulation of Hybrid Algorithm to Identify Distinctive Electromyography Signals Pattern of Lower Limb Muscle Activities based on Various Type of Motion for Rehabilitation Therapy. (RM84,000)	Researcher	2015-2017	FRGS	Ongoing
Development of An Automated Cleaning System: Knife and Chicken Neck. (RM37,540)	Researcher	2016	PPRN- Public Private Research Network (MOHE)	Completed
Nonlinear Hybrid Neural Networks- Based Model Prediction Control of Co-Current Two Fluid Nozzle Spray Dryer (RM20,000)	Researcher	2016 – 2018	GP-IPS	Ongoing
An Auto-Tuning Of Hybrid Intelligent Controller For Process Control System (RM20,000)	Researcher	2016-2018	GP-IPS	Ongoing