

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI (Personal Details)			
Nama Penuh (Full Name)	Ahmad Suhaizi B. Mat Su		Gelaran (Title): Dr.
No. MyKad / No. Pasport (Mykad No. / Passport No.): 830208-11-5273	Warganegara (Citizenship): Malaysian	Bangsa (Race): Malay	Jantina (Gender): Male
Jawatan (Designation)	Pensyarah Kanan (A04638)	Tarikh Lahir (Date of Birth)	8 Feb 1983
Alamat Semasa/Surat menyurat (Current Address)	Jabatan/Fakulti (Department/Faculty)		E-mel dan URL (E-mail Address and URL)
Department of Agriculture Technology (Block E, Level 2), Faculty of Agriculture, Universiti Putra Malaysia, 43400 UPM Serdang Selangor	Department of Agriculture Technology, Faculty of Agriculture, Universiti Putra Malaysia, 43400 UPM Serdang Selangor Tel: +6 03-8947 4959 Fax: +6 03-8938 1015 H/P: +6 019 6439 149		E-mail: asuhaizi@upm.edu.my, asuhaizi1@gmail.com URL: https://sites.google.com/site/ahmadmatsumcgill/ Skype ID: asuhaizi

B. KELAYAKAN AKADEMIK (Academic Qualification)			
Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususan (Area of Specialization)
Ph.D (Thesis title: Application of Proximal Soil Sensing for Environmental Impact Characterization of Agricultural Land)	McGill University, Montreal, Quebec, Canada	2016	Bioresource Engineering, Agricultural Mechanization and Precision Agriculture
Master of Science (Thesis title: Mapping of Vertical Soil Electrical Conductivity Using Angular Scanning Approach)	University of Nebraska-Lincoln, Nebraska, USA	2010	Engineering - agricultural mechanization and precision agriculture
Bachelor of Engineering (Agricultural and Biological)	Universiti Putra Malaysia	2006	Engineering - Agriculture
College	Matriculation of Science (Biology), Londang, Melaka	2002	Science
Malaysian Certificate of Education (Sijil Pelajaran Malaysia, SPM)	Sekolah Menengah Kebangsaan Sultan Sulaiman, K. Terengganu	2000	Science
Penilaian Menengah Rendah (PMR)	Sekolah Menengah Kebangsaan Padang Midin, K. Terengganu	1998	Science

C. KEMAHIRAN BAHASA (<i>Language Proficiency</i>)					
Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English				/	
Bahasa Melayu					/
French	/				
D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (<i>Scientific experience and Specialization</i>)					
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>	
IUSS Working Group on Proximal Soil Sensing	Researcher, Participant	2010	Present	Proximal soil sensors technology	
Agricultural Greenhouse Gas Program, AAFC, McGill University, Canada	Researcher	2010	2015	Climate change, agriculture greenhouse gas	
UK-Canada Workshop on Smart Technologies for Agriculture	Researcher, Participant	July 10 th 2014	July 12 th 2014	Proximal soil sensors technology	
Academy Sciences of Malaysia (ASM)	Consultation member	June 2010	Dec 2010	Agricultural engineering	
AFFILIATION/PROFESSIONAL BODY					
Engineering Societies					
Institution of Engineers Malaysia (IEM)	Graduate Member (90075)	2017	Present	Agricultural and Biological Engineering, Farm Mechanization, Precision Farming, Proximal Soil Sensing	
Board of Engineers Malaysia (BEM)	Member (53081A)	2006	Present		
Malaysian Society of Agricultural Engineer (MSAE)	Member (M2272)	2016	Present		
American Society of Agricultural and Biological Engineer	Member (1036729), Reviewer	2008	Present		
IUSS Working Group on Proximal Soil Sensing	Member	2010	Present		
Soil Societies					
Canadian Soil Science Society, Quebec, Canada	Member, Reviewer	2013	Present	Agriculture engineering, agriculture greenhouse gases, peat soil	
Malaysian Society of Soil Science (MSSS)	Member (0834)	2013	Present		

E. PEKERJAAN (Employment)				
Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
Universiti Putra Malaysia	Lecturer. Teaching course: Agricultural Mechanization (TKP3501)	Dept. of Agriculture Technology, UPM	2016	Current
Universiti Putra Malaysia	Teaching Assistance (Tutor). Agricultural Mechanization (TKP3501)	Dept. of Agriculture Technology, UPM	May 2008	2016
Universiti Putra Malaysia	Research Assistant	Department of Agricultural and Biological Engineering, UPM	June 2006	May 2007
McGill University	Teaching Assistance- part time. (FMTP-027: Precision Agriculture Technology, GIS and GPS Class)	Bioresource Engineering Department, McGill Univ. Canada	Jan 2013	April 2013
University of Nebraska- Lincoln, Lincoln, Nebraska, AS	Teaching Assistance- part time. (Physics)	Department of Agricultural and Biological Engineering, UNL, USA	2009	2010
Asiatic Oil Mill Sdn. Bhd. (Genting Group)	Assistant Mill Engineer (trainee)	Engineering and mill operation	May 2006	Sept 2006

F. ANUGERAH DAN HADIAH (Honours and Awards)				
Name of awards	Title	Award Authority	Award Type/Level	Year
Academic Awards	1. First place. "MyHSC: Aplikasi Gamifikasi dalam Pengajaran dan Pembelajaran". Pertandingan Amalan Inovasi Pengajaran & Pembelajaran Fakulti/Pusat Terbaik 2016. Group Presentation/Award	Universiti Putra Malaysia, COSCOM	RM5K, Piala Pusingan. Team competition. Piala Fakulti. University	7 Nov 2016
	2. Guy Mehuis Memorial Award, Montreal, Canada	Comission 2.5 of the International Union of Soil Science, the Canadian Soil Science Society and the Association Quebecois de Specuialistes en Science du sol	International	July 5 th , 2015
	3. Outstanding Graduate Student Award. Sacramento, California, USA	International Society of Precision Agriculture (ISPA)	International	July 22 nd , 2014
	4. Graduate Travel Awards (GREAT)	Department of Bioresource Engineering. McGill University, Qc, Canada	International	May 14 th , 2012
	5. Federal Scholarship Awards: Skim Latihan Akademik IPTA (SLAI)	Universiti Putra Malaysia/Ministry of Higher Education of Malaysia	University	2011-2014
	6. Federal Scholarship Awards. Skim Latihan Akademik	Universiti Putra Malaysia/Ministry of	University	2008-2010

	<i>Bumiputera (SLAB).</i>	Higher Education of Malaysia		
	7. Excellence Service Award	Faculty of Agriculture, UPM	University	2007/2008/2009/2010
Non-Academic Awards	1. Second Place; American Society of Agricultural & Biological Engineers (ASABE) Robotic Student Competition 2009. Team Competition- University of Nebraska-Lincoln. Grand Sierra Resort, Reno, Nevada. June 21st -23rd, 2009. International	American Society of Agricultural & Biological Engineers (ASABE)	International	2009
Awards of Merit				

G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)

<i>Journal</i>	<p>Peer reviewed journals</p> <ol style="list-style-type: none"> 1. Wijedasa, L. S., Jauhiainen, J., Könönen, M., Lampela, M., Vasander, H., LeBlanc, M.-C., Evers, S., Smith, T. E. L., Yule, C. M., Varkkey, H. Ahmad Suhaizi Mat Su, and others. 2017. Denial of long-term issues with agriculture on tropical peatlands will have devastating consequences. <i>Global Change Biology</i>. DOI: 10.1111/gcb.13516 (Q1, IF: 8.444). 2. Wijedasa, L. S., Jauhiainen, J., Könönen, M., Lampela, M., Vasander, H., LeBlanc, M.-C., Evers, S., Smith, T. E. L., Yule, C. M., Varkkey, H. Ahmad Suhaizi Mat Su, and others. 2017. Sanggahan terhadap dampak jangka panjang pertanian di lahan gambut tropis akan mengakibatkan kehancuran. <i>Global Change Biology</i>. DOI: 10.1111/gcb.13516 (Q1, IF: 8.444). <i>Translated into Indonesia</i>. 3. Wijedasa, L. S., Jauhiainen, J., Könönen, M., Lampela, M., Vasander, H., LeBlanc, M.-C., Evers, S., Smith, T. E. L., Yule, C. M., Varkkey, H. Ahmad Suhaizi Mat Su, and others. 2017. Penafian isu-isu jangka panjang berkaitan pertanian di kawasan tanah gambut tropika akan mengakibatkan kebinasaan. <i>Global Change Biology</i>. DOI: 10.1111/gcb.13516 (Q1, IF: 8.444). <i>Translated into Malay</i>. 4. Ahmad S. Mat Su and Adamchuk. Temporal and operation-induced variability of apparent soil electrical conductivity measurements. <i>Journal of Applied Geophysics</i>. 2014 (Accepted). (Q2, IF: 1.355) 5. K. P. Edwards, C. A. Madramootoo, J. K. Whalen, V. I. Adamchuk, A.S. Mat Su, H. Benslim. 2014. Greenhouse gas emission from drip irrigation fields. <i>Trans. of the ASABE</i>. (Q2, IF: 0.96) 6. Adamchuk, V.I., A.S. Mat Su, R.A. Eigenberg, and R.B. Ferguson. 2011. Development of an angular scanning system for sensing vertical profiles of soil electrical conductivity. <i>Transactions of the ASABE</i> 54(3): 1-11. (Q2, IF: 0.96)
<i>Books/Monographs</i>	<ol style="list-style-type: none"> 1. Hashim A.W, Larry W., Makhdzir M., Mohamed Ariff O., Mohd. Amin M.S., Kuperan V., Tee E. S., Hashim M.N, Mohammad Mehdi S., Ahmad Suhaizi M. S., Fadzilah M.N., Khairul Salleh M.R.. <i>Mega Science Framework Study for Sustainable National Development on Agriculture 2011-2050</i>. 2011. Academy Sciences of Malaysia (ASM). Available at : http://www.akademisains.gov.my/index.php?option=com_content&task=view&id=424&Itemid=9
<i>Chapter in book</i>	
<i>Proceedings</i>	<ol style="list-style-type: none"> 1. Ahmad Suhaizi Mat Su, Ahmad Husni Mohd Hanif, Viacheslav I. Adamchuk, Joann K. Whalen, and Asim Biswas. 2016. Identification of the representative chamber location for monitoring the agriculture greenhouse gases. Oral presentation (Session 16). In <i>Proceedings of 7th International Agriculture Congress 2016</i>, Bangi, Malaysia. Abstract No. 1032. P. 445 2. Ahmad Suhaizi Mat Su, Azmi Yahya, Nazmi Mat Nawi, Nurul Azimah Wagiman, Radiah Mat Nasir, Farkad Morteda Hameed Almusawi. 2016. Identification of the representative chamber location for monitoring the agriculture greenhouse gases. Poster presentation (No. 84). In <i>Proceedings of 7th International Agriculture Congress 2016</i>, Bangi, Malaysia. Abstract No. 1023 P. 870. 3. Ahmad Suhaizi Mat Su, Viacheslav I. Adamchuk and Mohd Husni Mohd Hanif. 2016. Comparison of the Carbon Dioxides Fluxes Under Peat Soil Between Temperate and Tropical Region Under Intensive Agriculture Production. In <i>Proceedings of 15th International PEAT Congress 2016</i>, Kuching, Sarawak, Malaysia. Abstract No. A-276. 4. Mat Su, A.S., V.I. Adamchuk, J.K. Whalen, C.A. Madramootoo, H.H. Huang, K. Tam, and H. Benslim. 2016. Predicting changes in greenhouse gas emissions in muck soil using physical observations.

	<p>Paper No. 141898760. St. Joseph, Michigan: ASABE.</p> <ol style="list-style-type: none"> 5. Edwards, K.P., C.A. Madramootoo, J.K. Whalen, V.I. Adamchuk, A.S. Mat Su, and H. Benslim. 2014. Greenhouse gas emissions from drip irrigated fields. Paper No. 141899456. St. Joseph, Michigan: ASABE 6. Mat Su, A., Adamchuk, V., Biswas, A., and Ji. W. 2015. Using proximal soil sensing to optimize assessment of agricultural greenhouse gas emission. Global workshop of Proximal Soil Sensing, Hangzhou, China. 7. Mat Su, A.S. and V.I. Adamchuk. 2014. Evaluation of the temporal and operational stability of apparent soil electrical conductivity measurements. In: Proceedings of the 12th International Conference on Precision Agriculture, Sacramento, California, 20-23 July 2014. International Society of Precision Agriculture (published on-line at http://www.ispag.org, 11 pages 8. Ji, W., Adamchuk, V.I., Biswas, A., Mat Su, A. and Shi, Z. 2015. Simultaneous measurement of multiple soil properties through proximal sensors fusion. In Proceedings of Global workshop of Proximal Soil Sensing, Hangzhou, China, p. 20-26. 9. Mat Su, A.S., Adamchuk, V.I., Whalen, J.K., Madramootoo, C.A., Biswas, A., Reumont, F., De La Macorra, F.R. and Ji, W. 2015. Using proximal soil sensing to optimize assessment of agricultural greenhouse gas emission. Poster Presentation. Joint conference of IUSS-CSSS-AQSSS, Montreal, Canada. 10. Mat Su, A. S., V. I. Adamchuk, C. A. Madramootoo, J. K. Whalen, H.H Huang. 2013. Estimating greenhouse gas emissions using experimental data. In: Scientific Program of CSSS/MSSS/CSAFM Joint Meeting, Winnipeg, Manitoba, 21-25 July 2013, 70. Winnipeg, Winnipeg, CSSS. 11. Dhawale, N.M., V.I. Adamchuk, S.O. Prasher, J.K. Whalen, L. Pan and A.S. Mat Su. 2013. Rapid measurement of nitrate ion activity using a direct soil sensing approach. In: Scientific Program of CSSS/MSSS/CSAFM Joint Meeting, Winnipeg, Manitoba, 21-25 July 2013, 99. Winnipeg, Winnipeg, CSSS. Poster. (Available online: http://home.cc.umanitoba.ca/~tenutam/CSSS/CSSS%20MSSS%20CSAFM%20printed%20program%20FINAL.pdf) 12. Nandkishor M. Dhawale, Viacheslav I. Adamchuk, Shiv O. Prasher, Joanne K. Whalen, Luan Pan and Ahmad S. Mat Su. 2013. Rapid Measurement of Nitrate Ion Activity Using Direct Soil Sensing Approach. Annual Meeting of Canadian Soil Science Society, July 22-25, 2013. (Available online: http://home.cc.umanitoba.ca/~tenutam/CSSS/CSSS%20MSSS%20CSAFM%20printed%20program%20FINAL.pdf) 13. Adamchuk, V.I., A.S. Mat Su, R.A. Eigenberg, and R.B. Ferguson. 2011. Mapping vertical profiles of apparent electrical conductivity in soils using angular scanning approach. In: Proceedings of the 2011 Symposium on the Application of Geophysics to Engineering and Environmental Problems, Charlotte, North Carolina, 10-14 April, 2011. Denver, Colorado: EEGS (CD publication). 14. Mat Su, A., V. Adamchuk and R. Eigenberg. 2009. On-the-go vertical sounding of agricultural fields using EMI sensors. In: Proceedings of the 22nd Symposium on the Application of Geophysics to Engineering and Environmental Problems, Fort Worth, Texas, 29 March – 2 April 2009. Denver, Colorado: EEGS (CD publication)
<p><i>Other publications</i> <i>Consultation report</i></p>	<ol style="list-style-type: none"> 1.

H. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)						
Project No.	Project Title	Role	Year	Source of fund	Amount	Status (O = on going, C = completed)
MADA(C5)303 105(43)	Soil Interaction from the Machinery Used in Rice Production	Lead Researcher	2016-2018	MADA	RM120k	O
na	Evaluation of the Spraying Performance of the UAS Integration and Efficacy Test for Rice Cultivation (Proposal submitted)	Lead Researcher	2017	MADA	RM\$\$	na
Na	Application of the Unmanned Aerial Systems (UAS) as a Flexible Learning Tools for Agriculture Student-GIPP grant (Proposal submitted)	Lead Researcher	2018-2019	CADe UPM	RM\$\$	na
Na	Optimization of the Rice Drying Process and Energy Usage With Better Control of Temperature and Moisture in Monitoring the Post-harvest Rice Yellowing Effect	Lead Researcher	2018-2019	FRGS-KPT	RM\$\$\$	na

I. TEACHING EXPERIENCES (Past/current classes)			
COURSE CODE (NAME)	KREDIT	SEMESTER/YEAR	INSTITUTION
FMTF 027 (Precision Farming)	2+1+1	Winter 2013/2014	McGill Univ.
TKP3501 (Agricultural Mechanization)	3(2+1)	Semester 1&2 2015/2016, 2016/2017	UPM
TKP3501 (Agricultural Mechanization)	3(2+1)	Semester 1 2017/2018	UPM
TKP4802 (Aquaculture Engineering)	3(2+1)	Semester 1 2017/2018	UPM

J. KONSULTANSI/PENGEMBANGAN (Past consultation/extension)						
Project No.	Project Title	Role	Year	Source of fund	Amount	Status (O = on going, C = completed)
na	Smart Hydroponic Indoor Gardening Vase	Co-consultant	2017	Nazrol Tech Sdn Bhd (FOC)	na	O
na	Automated Control System for Organic Farming.	Extension, Co-consultant	2016	Ministry (FOC)	na	C
na	Consultancy for the Mega Science in Framework Study: For Sustainable National Development in Agriculture 2011 - 2050	Co-consultant	2011	Academy Sciences of Malaysia (ASM).	na	C
na	Committee of the Yayasan Raja-Raja (Royal Foundation Projects Development Program in Malaysia	Extension, Committee	Mei 2010	Yayasan Raja-Raja	na	C
na	Education Program of "One Million New Scientists. One Million New Ideas" for 4H program	Organizer, Extension	June 2008	University of Nebraska -Lincoln	na	C

K. PENYELIAAN (Supervision)		
Level	Type of Supervision	
	Main SV	Co-SV
PhD (Ongoing)	-	1
PhD (Finished)	-	-
Masters (Ongoing)	1	1
Masters (Finished)	-	-

L. RANGKAIAN SOSIAL (Social Networking)	
Facebook Page	https://www.facebook.com/MajalahAgriMTech/
Research gate	https://www.researchgate.net/profile/Ahmad_Suhaizi_Mat_Su
Website url	https://sites.google.com/site/ahmadmatsumcgill/
Others Skype Id	Asuhaizi
Google Scholar	https://scholar.google.com/citations?user=wX76Pv8AAAAJ&hl=en
Orchid	