

## CURRICULUM VITAE



### PERSONAL INFORMATION

Name	FATIMAH BINTI SALIM
Date of birth	9 <sup>th</sup> April 1979
Nationality	Malaysian
Marital Status	Married
Home Address	No 15 Jalan AU3/7, Ampang Ulu Klang, 54200 Kuala Lumpur
Hand phone No	013-397 4408
Corresponding Address	Razak Faculty of Technology and Informatics, Department of Engineering and Technology, UTM Kuala Lumpur, Jalan Sultan Yahya Petra ( <i>formerly known as Jalan Semarak</i> ), 53100 Kuala Lumpur.
Telephone	+603-2615 4398
Email	sfatimah.kl@utm.my
Website	razakschool.utm.my/fatimah/

### ACADEMIC QUALIFICATIONS

Year	2016
Qualification Awarded	PhD (Electrical Engineering)
Name of Institution	UTM
Thesis	Optimal Number and Placement of Power Quality Monitors for Monitoring Voltage Sags in Power System Networks
Year	2003
Qualification Awarded	Master of Engineering (Electrical)
Name of Institution	UTM
Thesis	Development of an FPGA-based gate signal generator for a multilevel inverter
Year	2001
Qualification Awarded	Bachelor of Engineering (Electrical)
Name of Institution	UTM
Thesis	Fast front transient analysis using PSCAD/EMTDC

**AWARDS AND HONORS  
RECEIVED**

Dates (from-to)	2016
Title of award	Award of Excellent in Active Blended Learning Course Semester 2 – 2015/2016 in Electronic Engineering Laboratory 3 (SMJE 3192) Section 01 and 02
Name of organization providing award	UTM Academic Leadership (UTMLead)
Dates (from-to)	2016
Title of award	Award of Excellent in Active Blended learning Course Semester 1 – 2015/2016 in Power Electronics (SMJE 4253) Section 01
Name of organization providing award	UTM Academic Leadership (UTMLead)
Dates (from-to)	Aug 2015 - Jan 2016
Title of award	Project Leader for Development of the User Friendly Power Quality Analysis Software (Contract Research) Perunding KMN
Name of organization providing award	
Dates (from-to)	Apr 2014 – June 2015
Title of award	Project Leader for Optimal Monitoring of Voltage Sags in Power System Network (Research grant GUP Tier 2)
Name of organization providing award	Ministry of Higher Education, Malaysia( MOHE)
Dates (from-to)	2007-2012
Title of award	SLAB Scholarship for PhD studies in UTM,
Name of organization providing award	Ministry of Higher Education, Malaysia( MOHE)
Dates (from-to)	2004
Title of award	Excellent Service Award
Name of organization providing award	UTM
Dates (from-to)	2002-2003
Title of award	UTM/JPA Scholarship for Master studies in UTM
Name of organization providing award	JPA
Dates (from-to)	1997-2001
Title of award	JPA Scholarship for undergraduate studies in UTM
Name of organization providing award	JPA

## **PROFESSIONAL EXPERIENCE**

Dates (from-to)	7-10/10/2018
Name and location of employer	10 <sup>th</sup> IEEE PES Asia-Pacific Power and Energy Engineering Conference 2018 (APPEEC)
Position held	Publication Chair
Dates (from-to)	24-26/7/2018
Name and location of employer	2 <sup>nd</sup> International Conference on Smart Sensors and Application (ICSSA 2018)
Position held	Publication Chair
Dates (from-to)	24-26/7/2018
Name and location of employer	2 <sup>nd</sup> International Conference on Smart Sensors and Application (ICSSA 2018)
Position held	Local Arrangement Chair
Dates (from-to)	15/5/2018
Name and location of employer	Chemical Process Engineering (CPE) Department, MJIIT
Position held	Assessment Panel for Final Year Project (FYP) Poster
Dates (from-to)	26/4/2018
Name and location of employer	Universiti Putra Malaysia
Position held	Research Expert in An Evaluation of professional Competencies among Technical and Vocational Training (TVET) teachers for Successful 4 <sup>th</sup> Industrial Revolution via the Implementation of Pelan Strategi Transformasi Pendidikan Vokasional (PSTPV) 2011-2025
Dates (from-to)	4/4/2018
Name and location of employer	Razak Faculty of Technology and Informatics
Position held	Research Expert in An Evaluation of Technical and Vocational Education and Training (TVET) technical Competency and Readiness using a Programmer-Specific Directory
Dates (from-to)	9/5/2017
Name and location of employer	Universiti Teknologi Malaysia, Kuala Lumpur
Position held	Senior Lecturer (DS52)
Dates (from-to)	2016
Name and location of employer	Transfer Renewable Energy & Eletrical Safety (TREES)
Position held	Workshop Committee Member
Dates (from-to)	7 <sup>th</sup> April 2010-28 <sup>th</sup> Feb 2014
Name and location of employer	Energy Commission of Malaysia, Putrajaya
Position held	Consultant for Power Quality Baseline Study for Peninsular Malaysia Consultancy Project

Dates (from-to)	2012
Name and location of employer	Ministry of Energy, Green technology and Water Malaysia (MESITA) and Energy Commission Malaysia
Position held	Event Manager for Stakeholder Workshop 2
Dates (from-to)	2011
Name and location of employer	Ministry of Energy, Green technology and Water Malaysia (MESITA) and Energy Commission Malaysia
Position held	Event Manager for Stakeholder Workshop 1
Dates (from-to)	2010
Name and location of employer	SIRIM Standards Technical Committee on Power Quality
Position held	Secretary for Power Quality Symposium
Dates (from-to)	2004-2007
Name and location of employer	Program Pengajian Diploma
Position held	Facilitator for Outcome Based Education for Diploma of Technology in Marine Electronics
Dates (from-to)	16 <sup>th</sup> April 2003-Current
Name and location of employer	UTM Kuala Lumpur
Position held	Lecturer
Dates (from-to)	25 <sup>th</sup> March 2002-16 <sup>th</sup> April 2003
Name and location of employer	UTM Kuala Lumpur
Position held	Tutor
<b>EDITOR/EDITORIAL/ADVISORY PANEL</b>	
Editor	Editor for Book Chapter "Power Quality Standards & Regulations in Malaysia" 2012.
Reviewer	<ol style="list-style-type: none"> <li>1. Reviewer for 11th International Power Engineering and Optimization Conference in 2017.</li> <li>2. Reviewer for International Journal of Distributed Sensor Network, 2016.</li> <li>3. Reviewer for IEEE Industrial Electronics and Applications Conference (IEACon) 2016.</li> <li>4. Reviewer for 10th International Power Engineering and Optimization Conference in 2016.</li> <li>5. Reviewer for International Conference on Electrical, Electronics Communication and Control Engineering (ICEECC) 2016.</li> <li>6. Evaluator for 3rd IEEE Final year Project Online Competition 2016.</li> <li>7. Subject Moderator for SRSD 3092 (Electrical &amp; Electronics for Design), 2016.</li> <li>8. Reviewer for IEEE Power Delivery Transaction in 2013 and 2014.</li> <li>9. Reviewer for International Symposium on</li> </ol>

Mechatronics and Its Applications in 2012.

## **ADMINISTRATIVE EXPERIENCE**

### **FACULTY LEVEL**

Dates (from-to)	1/7/2018 – 30/6/2020
Position held	Master Project Coordinator, Razak Faculty of Technology and Informatics
Dates (from-to)	3/9/2018 - present
Position held	Task Force member: Kertas kerja Tambahan Kursus Elektif Program Sarjana Sains (Kejuruteraan Sistem)
Dates (from-to)	2016
Position held	Committee member on Technical Evaluation, UTM Razak School
Dates (from-to)	2016
Position held	Task Force member: Pembangunan Makmal Lanjutan UTM Razak School
Dates (from-to)	2016-present
Position held	Master Project Committee Member
Dates (from-to)	2016-present
Position held	Master Project Symposium Committee Member
Dates (from-to)	2016-present
Position held	Leader of Task Force for UTM Razak School Bachelor Program in Industrial Management
Dates (from-to)	1 <sup>st</sup> Nov 2016-30 <sup>th</sup> Oct 2018
Position held	Head of Electrical Engineering Panel, UTM Razak School
Dates (from-to)	5 <sup>th</sup> May 2015-present
Position held	Member of Engineering Department, Razak Faculty

### **UNIVERSITY LEVEL**

Dates (from-to)	1 <sup>st</sup> August 2017 – 31 <sup>st</sup> July 2020
Position held	Research Fellow in UTM Ocean Thermal Energy Centre (OTEC)
Dates (from-to)	17 <sup>th</sup> -18 <sup>th</sup> January 2017
Position held	The Appraisal Panel for Compliance Audit Electronic Engineering Diploma Program (DDWE), PPD, UTMSPACE

Dates (from-to)	15 <sup>th</sup> Feb 2015 – 1 <sup>st</sup> August 2017
Position held	Research Fellow in Centre of Electrical Energy Systems (CEES)
Dates (from-to)	1 <sup>st</sup> July 2016 - present
Position held	Centre of Electrical Energy Systems (CEES), UTM Kuala Lumpur Facility Manager
Dates (from-to)	2015 - present
Position held	Member of Institute of Future Energy (IFE)
<b>NATIONAL COMMITTEE</b>	
Dates (from-to)	2012-present
Position held	SIRIM Standards Technical Committee on Power Quality
<b>INTERNATIONAL APPOINTMENT/ COMMITTEE</b>	
Dates (from-to)	2017 – present
Position held	Secretary of the IEEE Power and Energy Society (PES) Malaysia Chapter
Dates (from-to)	2016
Position held	Executive Committee of the IEEE Power and Energy Society (PES) Malaysia Chapter
Dates (from-to)	15 <sup>th</sup> – 17 <sup>th</sup> August 2016
Position held	Committee Member for 2 <sup>nd</sup> IEEE PES Student Congress, , RHR Hotel Putrajaya
<b>PROFESSIONAL MEMBERSHIP</b>	
Dates (from-to)	22/2/2018 – 21/2/2019
Name of organisation	Malaysia Board of Technologists
Position held	Professional Technologist (Electrical & Electronics Technology)
Dates (from-to)	22/2/2018
Name of organisation	Malaysia Board of Technologists
Position held	Graduate Technologist (Electrical & Electronics Technology)
Dates (from-to)	2012- present
Name of organisation	Institute of Electrical and Electronics Engineers (IEEE)
Position held	Member (Membership No.: 92162492)

Dates (from-to)	2012- present
Name of organisation	IEEE-PES Malaysia Chapter
Position held	Secretary

Dates (from-to)	6 <sup>th</sup> March 2009- present
Name of organisation	Board of Engineers Malaysia (BEM)
Position held	Graduate Engineer (Membership No: 59061A)

### **TEACHING EXPERIENCES**

#### **UNDERGRADUATE COURSES**

Subject Code	SMJE 3192
Subject Name	Electronic Engineering Laboratory II

Subject Code	SMJE 3192
Subject Name	Electronic Engineering Laboratory III

Subject Code	SMJE 4813
Subject Name	Capstone Design Project

Subject Code	SMJE 4253
Subject Name	Power Electronics and Drives

#### **POSTGRADUATE COURSES**

Subject Code	URSP 0013
Subject Name	Research Methodology

Subject Code	URSP 0010
Subject Name	Research Methodology (Engineering & Technology)

#### **RESEARCH GRANTS**

Dates (from-to)	1/9/2018 – 30/3/2019
Name of Funder	Centre for Community and Industry Network Research Project
Research Grant Title	SROI: KELESTARIAN PROJEK PEMANTAPAN KEMAHIRAN DI KALANGAN ANAK MUDA
Position held	Member
Budget	RM4,000.00 (Vot 4Y137)

Dates (from-to)	1/2/2018 – 31/1/2020
Name of Funder	RUG of UTM
Research Grant Title	Conceptual Design of Fixed Ocean Thermal Energy Conversion (OTEC) Offshore Power Plant in Malaysia
Position held	Member
Budget	RM50,000.00 (Vot 04G02)

Dates (from-to)	1/8/2017 – 31/7/2019
Name of Funder	Dana Penyelidikan UTM Razak
Research Grant Title	Measuring TVET Teachers' Technical Competency and Readiness Using A Programme-specific Directory
Position held	Member
Budget	RM31,500.00 (Vot 4J293)
Dates (from-to)	17 <sup>th</sup> Nov 2016-16 <sup>th</sup> May 2017
Name of Funder	Centre for Community and Industry Network Research Project
Research Grant Title	Pemantapan Kemahiran dikalangan Anak Muda
Position held	Researcher
Budget	RM20,000.00 (Vot 4L204)
Dates (from-to)	1 <sup>st</sup> April 2012-30 <sup>th</sup> September 2014
Name of Funder	Fundamental Research Grant Scheme (FRGS Fund)
Research Grant Title	An Experimental Study of harmonic impacts on Step-Down Transformer in End User Equipment
Position held	Researcher
Budget	RM84,040.00 (Vot 4F112)
Dates (from-to)	1 <sup>st</sup> August 2015-31 <sup>st</sup> October 2016
Name of Funder	Perundingan KMN
Research Grant Title	Development of the User Friendly Power Quality Analysis Software
Position held	Project Leader
Budget	RM20,206.54
Dates (from-to)	1 <sup>st</sup> April 2014-30 <sup>th</sup> June 2015
Name of Funder	UTM Research University Grant (RUG)
Research Grant Title	Optimal Monitoring of Voltage Sag in Power System Network
Position held	Project Leader
Budget	RM31,992.60 (Vot 09J78)
Dates (from-to)	1 <sup>st</sup> May 2012-30 <sup>th</sup> July 2013
Name of Funder	UTM Research University Grant (RUG)
Research Grant Title	On-line Power transformer Monitoring System for Regular Maintenance and Early Warning of Failure and Losses
Position held	Researcher
Budget	RM20,000.00 (Vot 05J99)
Dates (from-to)	1 <sup>st</sup> December 2012-31 <sup>st</sup> March 2015
Name of Funder	UTM Research University Grant (RUG)
Research Grant Title	A New Customized Voltage Sag Generator (VSG) using Tablet-PC Interface for Portable Electrical Equipment Testing
Position held	Researcher
Budget	RM160,789.00 (Vot 03H46)



Dates (from-to)	1 <sup>st</sup> May 2015-31 <sup>st</sup> October 2016
Name of Funder	UTM Research University Grant (RUG)
Research Grant Title	Comprehensive Monitoring and Diagnostic System for Power Distribution Substation
Position held	Researcher
Budget	RM49,990.00 (Vot 10H64)

#### **POSTGRADUATE SUPERVISION**

##### **PHD STUDENT**

Student Name	Mohd Hanapi bin Azizul
Research Title	Retrofitting Old Office Building to Energy Efficient Building (Low Carbon Building)
Student Status	Active
Role	Supervisor

Student Name	Muhammad Fakhurrrazi bin Muhammad Ghazi
Research Title	Policy Framework in Overcoming Barriers in Developing Renewable Energy in the Tropics Country
Student Status	Active
Role	Co-Supervisor

##### **MASTER (TAUGHT COURSE) STUDENT**

Student Name	Jegathesan Vangarasalam
Research Title	Customized Wafer Printing Tools in Wafer Back Side Coating Process
Student Status	Active
Role	Supervisor

Student Name	Suhan A/L Ganesan
Research Title	Cement Plant Maintenance Shutdown Management
Student Status	Active
Role	Co-Supervisor

Student Name	Mohd Nazri bin Kamaruddin
Research Title	Keberkesanan Proses Audit HSE Di Bahagian Pembahagian TNB
Student Status	Active
Role	Supervisor

Student Name	Wan Ainun Bahirah bt Wan Mohamed Salleh
Research Title	Simulation Model of Power-To-Gas System
Student Status	Active
Role	Supervisor

Student Name	Mohd Hafiz bin Ahmad
Research Title	Air conditioning system monitoring in Hypermarket
Student Status	Graduated 2018
Role	Main Supervisor
Student Name	Ahmad Miski bin Mohamad Nor
Research Title	Risk of Musculoskeletal Disorder for General Durability Test Drivers
Student Status	Graduated 2016
Role	Main Supervisor
Student Name	Muralinthiran A/L Murugan
Research Title	Reduction of Major Injuries During Inspection on Ammunition and Explosives
Student Status	Graduated 2016
Role	Co- Supervisor
Student Name	Afham bin Abdul Rahman
Research Title	Safety Culture in Royal Malaysian Air Force (RMAF)'s Hangar
Student Status	Graduated 2016
Role	Co-Supervisor

#### **PUBLICATIONS AND PAPER PRESENTED**

Thesis	<ol style="list-style-type: none"> <li>1. Fatimah Salim, Optimal Number and Placement of Power Quality Monitors for Monitoring Voltage Sag in Power System Networks, Ph.D. Thesis, Universiti Teknologi Malaysia, Malaysia (2016).</li> <li>2. Fatimah Salim, Development of an FPGA-Based Gate Signal Generator for a Multilevel Inverter, Master Thesis, Universiti Teknologi Malaysia, Malaysia (2003).</li> <li>3. Fatimah Salim, Fast Front Transient Analysis using PSCAD/EMTDC, Degree Thesis, Universiti Teknologi Malaysia, Malaysia (2002).</li> </ol>
Book Chapter	Khalid Mohamed Nor, <b>Fatimah Salim</b> , Dalila Mat Said, Mah Soo. Power Quality Standards and Regulations in Malaysia. <i>Achievement, Issues and Challenges</i> . 2011 Penerbit UTM, ISBN 978-967-52-0816-4
Chapter in Book	<ol style="list-style-type: none"> <li>1. Muralinthiran Murugan, Mohamed Azlan Suhot, <b>Fatimah Salim</b>, Shamsul Sarip. Occupational Safety and Health Practices: The Way Forward, Chapter 2: Reduction of Major Injuries During Inspection on Ammunition and Explosives. (ISBN: 978-967-330-171-3)</li> </ol>

	<ol style="list-style-type: none"> <li>2. <b>Fatimah Salim</b>, Power Quality Standards and Regulations in Malaysia. <i>Achievement, Issues and Challenges</i>: Chapter 8: Voltage Sag Observation through Optimal Monitor Locations. (ISBN: 978-983-52-0816-4)</li> <li>3. Mohamed Fuad Faisal, Azah Mohamed, Hussain Shareef, <b>Fatimah Salim</b>. Power Quality Standards and Regulations in Malaysia. <i>Achievement, Issues and Challenges</i>: Chapter 10: A Novel Method to Identify the Sources of Voltage Sags using SVR based S-Transform. (ISBN: 978-983-52-0816-4)</li> <li>4. Khalid Mohamed Nor, Dalila Mat Said, <b>Fatimah Salim</b>. Power Quality Standards and Regulations in Malaysia. <i>Achievement, Issues and Challenges</i>: Chapter 11: Impacts of Voltage Sag Events on Electronics Manufacturing Industry in Malaysia. (ISBN: 978-983-52-0816-4)</li> </ol>
Expert Report	<p>Khalid Mohamed Nor, <b>Fatimah Salim</b> and Dalila Mat Said, Power Quality Baseline Study for Peninsular Malaysia, Final Report submitted to Energy Commission Malaysia, 2014.</p>
Proceedings / Referred Conference	<ol style="list-style-type: none"> <li>1. <b>F. Salim</b>, K.M. Nor, D. M. Said, A.A. A. Rahman, "Voltage Sags Cost Estimation for Malaysian Industries", IEEE International Conference on Power and Energy (PECon 2014), p. 41-46.</li> <li>2. A.A. Abdul Rahman, K. Seman, k. Saadan, A. Azman, <b>F. Salim</b>, "Non-Uniform Traffic Performance of Multi-Class Scheduling Technique with Dual Threshold", International Journal of Engineering and Innovative Technology (IJEIT), Vol. 3, Issue 4, Oct 2013.</li> <li>3. T.L.G. Soh, D. M. Said, N. Ahmad, K.M. Nor, <b>F. Salim</b>; "Experimental Study on the Impact of Harmonics on Transformer", IEEE 7<sup>th</sup> International Power Engineering and Optimization Conference (PEOCO 2013).</li> <li>4. <b>Salim, F.</b>; Nor, K.M.; Said, D.M.; Serwan, M.S. "A system-wide power quality monitoring using machine-to-machine wireless broadband technology", <i>IEEE 15th International Conference on Harmonics and Quality of Power (ICHQP), 2012</i>, page(s): 124 - 129.</li> <li>5. <b>Salim, F.</b>; Nor, K.M. "Voltage Sags Observation through Optimal Monitor Locations", <i>IEEE 14th International Conference on Harmonics and Quality of Power (ICHQP), 2010</i>, page(s): 1 - 6.</li> <li>6. <b>Salim, F.</b>; Nor, K.M. "Optimal Monitor Locations to Observe Voltage Sags in Utility Distribution System", Power Quality Symposium, PWTC Kuala Lumpur,</li> </ol>

2010.

7. **Salim, F.;** Nor, K.M. "Voltage Sag Detection via Optimal Monitor Locations", International Conference Electrical Energy and Industrial Electronic Systems (EEIES), Penang, 2009.
8. **Salim, F.;** Nor, K.M. "Optimal Voltage Sag Monitor Locations", Universities Power Engineering Conference (AUPEC), New South Wales, Australia, 2008.
9. **Salim, F.;** Naziha Ahmad Azli,"*Implementation of the HEPWM Technique on a Multilevel Inverter Using FPGA*", Australasian Universities Power Engineering Conference (AUPEC), 2004
10. **Salim, F.;** Naziha Ahmad Azli, "*Development of an FPGA Based Gate Signal Generator for a Multilevel Inverter*", 5<sup>th</sup> International Conference on Power Electronics and Drive System (PEDS), 2003.

**PERSONAL SKILLS AND  
COMPETENCES**

Mother Tongue  
Other Languages

Malay  
English  
Reading (good), Writing (good), Verbal (good)

**TECHNICAL SKILLS AND  
COMPETENCES**

Software engineering

PowerWorld Simulator, MATLAB

Technologies and tools

Microsoft Office, Microsoft Project