



## CURRICULUM VITAE



### I. PERSONAL PARTICULARS

<b>Name</b>	<b>Capt Syed Nasir Alsagoff Bin Syed Zakaria (Retired)</b>
<b>Current Position Faculty / Department</b>	<b>Associate Professor DS54</b>

### II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

(Please list all academic qualifications, from your first degree, in chronological order)

<b>Year</b>	<b>Degree</b>	<b>Discipline</b>	<b>University</b>
2002 – 2005	Masters of Computer Science by Research (Email Security and Encryption)	Computer Science	University Malaya
1999 – 2002	Bachelor of Information Technology with Honors (2nd Class Upper)	IT	Universiti Tun Abdul Razak
1995 – 1998	Diploma of Computer Science - CGPA: 3.53 (Number 2 in the graduating class)	Computer Science	Institut Teknologi Mara

### III. TITLES OF POSTGRADUATE THESES WRITTEN (At MSc/PhD Level)

<b>No.</b>	<b>TITLES OF POSTGRADUATE THESES</b>
1	DEVELOPING AND IMPLEMENTING A TRANSPARENT SECURE EMAIL SYSTEM USING PKI FOR A LOCALIZED ENVIRONMENT USING EASILY AVAILABLE RESOURCES.

**IV. WORK EXPERIENCE** (Please list your relevant experience in chronological order)

<b>Year</b>	<b>Position</b>	<b>Organisation</b>	<b>Start and End Date</b>
1991	Platoon Commander	MINDEF	1991 - 1993
1993	Intelligence Officer	MINDEF	1993 - 1995
1998	IT Systems Officer	MINDEF	1998 - 1999
1999	IT Security Manager	MINDEF	1999 - 2001
2001	Network & System Security Engineer	Commerce Dot Com	2001 - 2001
2001	IT Officer	MINDEF	2001 - 2002
2002	Network & System Security Engineer	Commerce Dot Com	2002 - 2005
2005	Assistant Manager ICT Infrastructure Management	Commerce Dot Com	2005 - 2007
2007	Lecturer	UPNM	2007 -

**1.0 TEACHING AND SUPERVISION****1.1 Postgraduate Courses**

(Please list in chronological order and state: course title, semester and year)

<b>No.</b>	<b>Course Title</b>	<b>Semester</b>	<b>Year</b>
1	Masters of Forensics Accounting (UITM)	1,2	2008
2	Masters of Forensics Accounting (UITM)	1,2	2009
3	Masters of Forensics Accounting (UITM)	1,2	2010
4	Masters of Forensics Accounting (UITM)	1,2	2011
5	Masters of Forensics Accounting (UITM)	1,2	2012
6	Masters of Forensics Accounting (UITM)	1,2	2013
7	Masters of Forensics Accounting (UITM)	1,2	2014
8	Masters of Forensics Accounting (UITM)	1,2	2015
9	Masters of Forensics Accounting (UITM)	1,2	2016
10	Masters of Forensics Accounting (UITM)	1,2	2017
11	Masters of Forensics Accounting (UITM)	1,2	2018
12	Masters of Forensics Accounting (UITM)	1,2	2019
13	Masters of Forensics Accounting (UITM)	1,2	2020
14	Masters of Forensics Accounting (UITM)	1,2	2021
15	Masters of Forensics Accounting (UITM)	1,2	2022
16	Masters of Forensics Accounting (UITM)	1,2	2023

## 1.2 First Degree Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
1	Computer and Network Security	1	2008
2	Cryptography	2	2008
3	Computer and Network Security	1	2009
4	Cryptography	2	2009
5	Computer and Network Security	1	2010
6	Cryptography	2	2010
7	Computer and Network Security	1	2011
8	Cryptography	2	2012
9	Computer and Network Security	1	2013
10	Cryptography	2	2013
11	Computer and Network Security	1	2014
12	Cryptography	2	2014
13	Computer and Network Security	1	2015
14	Cryptography	2	2015
15	Computer and Network Security	1	2016
16	Cryptography	2	2016
17	Cryptography	2	2017
18	Computer and Network Security	1	2017
19	Cryptography	2	2018
20	Final Year Project	2	2018
21	Computer and Network Security	1	2018
22	Cryptography	2	2019
23	Final Year Project	2	2019
24	Computer and Network Security	1	2019
25	Cryptography	2	2020

26	Computer and Network Security	1	2020
27	Cryptography	2	2021
28	Computer and Network Security	1	2021
29	Cryptography	2	2022
30	Computer and Network Security	1	2022
31	Cryptography	2	2023

### 1.3 Diploma Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
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### 1.4 Pre-Degree Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
1	Computer Literacy	1	2007
1	Computer Literacy	2	2007

### 1.5 PhD Supervision

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status <ul style="list-style-type: none"> <li>• Completed</li> <li>• Submitted</li> <li>• In Progress</li> </ul>	University
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### 1.6 PhD External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University
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## 1.7 MSc (by Research)

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status • Completed • Submitted • In Progress	University
1	NUR SHAMIMI BINTI CHE ANUAR	Framework of Determining the Malware Factor of a suspicious File Based on Its Behaviors	2011	Main	Completed	UPNM
2	NOR WAHIDAH BINTE ZAILAN	Search and Rescue Method Using GPS Technology and Network Centric.	2011	Main	Completed	
3	SITI NUR ALIDDA BT MOHD GHAZALI	Framework of Command and Control System for Maritime Autonomous Search and Rescue Operation Using Rotary Wing UAV	2013	Main	Completed	UPNM
4	MEJ AMRAN BIN IDRIS	Moving Towards Unified Communication: A Study on MINDEF Contact Centre Design and Security Perspective	2013	Main	Completed	UPNM/Warwick
5	MEJ MOHD SANUSI BIN IBRAHIM	Evaluating The Effectiveness of Camp Entrance Security	2014	Main	Completed	UPNM/Warwick

		Procedure in Malaysian Army KL/Selangor Main Camps				
6	MEJ IR HAIRUL NIZAM BIN SAMURI	Malaysian Army Camp Maintenance System (e-ACMS): Business Case Submission of the Maintenance Application Process	2014	Main	Completed	UPNM/Warwick
7	NUR SYAFIKIN SHAHEERA BINTI MAT ZAINI	Implementation of Mobile HCI for Search and Rescue Operation.	2014	Main	Completed	UPNM
8	MEJ JOSLAY BIN MOHD JALI	Service Efficiency and Cost Effective Study: RMPC Vehicle Fleet Maintenance System	2015	Main	Completed	UPNM/Warwick
9	NURSYAFEERA AZEERA BINTI RAHIM	Recovery-Oriented Computing for Mission Critical Client Server Operation	2016	Main	Completed	UPNM
9	NURUL AINI BINTI KASRAN	Rekabentuk Hologram 3-D Pemetaan Mukabumi Untuk Alat Bantuan Membuat Keputusan Ketenteraan	2017	Co	Completed	UPNM
10	KUAN FOOK CHAO	Enhancing Data Privacy and Cyber Defence:	2022	Co	Completed	UPNM

		Exploring Data Wiping Practices in the Royal Malaysian Air Force (RMAF) HQ				
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## 1.8 MSc External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University
1	MEJ MOHD SANUSI BIN IBRAHIM	Kegunaan Future Soldier System Tentera Darat (FSS TD) Dalam Konteks Peperangan Gerila	External	2012	Staff College
2	MEJ MOHD FADZIL BIN ABU KASIM	Analisa Risiko Kebocoran Maklumat Yang Menjejaskan Keselamatan Melalui Penggunaan Laman Rangkaian Sosial di Kementerian Pertahanan Malaysia	External	2012	Staff College
3	MEJ MOHD NAZERIY BIN YOB	Peperangan Siber: Ancaman Keatas Infrastruktur Pertahanan Kementerian Pertahanan (MINDEF)	External	2013	Staff College
4	MEJ MOHAMAD WASLI BIN MUSA	Google Earth Online Mapping Application: The Opportunities and Challenges to Malaysian Defence Security	External	2014	Staff College
5	MEJ MUHAMMAD YAZRUL BIN YAAKUB	The Threat of Anti-Military Blog Threat for Malaysia Armed Forces	External	2014	Staff College

## 1.9 Supervision (Postgraduate Research Project or Final Year Research Project)

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main/Co-Supervision)	Status • Completed • Submitted • In Progress
1	MAIZATUL LIYANA BINTI MOHD ZAKIDIN	Sistem Pengurusan Stor Rangsum UPNM	2008	Main	Completed
2	MOHAMAD HAMIZAN BIN HAMZAH	Sistem Pentadbiran Kekeluargaan Islam UPNM secara online	2008	Main	Completed
3	MUNA MUNIRAH BINTI MUKHTAR	Sistem Pengurusan Tabung Kebajikan Rejimen	2008	Main	Completed



		(TKR) - 1 RAMD			
4	NOR AZREEN BINTI ZAKARIA	Sistem Pengurusan Latihan Staf UPNM berasaskan web	2008	Main	Completed
5	NORSHAHIDIN BIN LONG	Virtual Whiteboard – Client Server Application	2008	Main	Completed
6	NUR HAZWANI BINTI RAMLI	Sistem Analisis Data Ujian Kemahiran Menembak	2008	Main	Completed
7	ZULHAZRIN BIN ABDUL MUTALIB	Sistem Audit Dalaman ISO 9001:9002 UPNM	2008	Main	Completed
8	MOHAMMAD ZHARIF BIN ABDUL MALIK	Sistem Pengurusan Maklumat Logistik bersepadu Pasukan Udara Tentera Darat	2009	Main	Completed
9	MOHD RIDZUAN BIN MOHAMMAD	Sistem Penempata n Pegawai- pegawai Muda ATM	2009	Main	Completed
10	MUHAMMAD FIKRI BIN ZAKARIA	Sistem Penjaduala n Latihan dan Jam Penerbanga n TUDM, Butterworth	2009	Main	Completed
11	RAVINDRAN A/L RAJA RATHANAM	Sistem Lembaga Kod Maruah UPNM	2009	Main	Completed
12	HASNUL HAFIZ BIN HASSAN	Sistem Pengurusan Penerjunan Para	2009	Main	Completed
13	MOHD SHAZMIR BIN OSMAN	GPS Tracking System (Server)	2010	Main	Completed
14	NUR KAMAL ARIFFIN BIN BORHAN	GPS Tracking System (Client)	2010	Main	Completed

15	NURUL AINI WAHIDA BT MD AZMI	Map Management System	2010	Main	Completed
16	VILASINI A/P PARAMASEVAN (A-)	Sistem penyimpanan file selamat dengan menggunakan Microsoft Access Database	2011	Main	Completed
17	NUR SHAMIMI BT. CHE ANUAR (A)	Sistem Penyampaian Maklumat (GIS) Semasa Operasi Latihan Ketenteraan .	2011	Main	Completed
18	NOR WAHIDAH BINTE ZAILAN (A)	Sistem Pengurusan Kata Laluan Melalui Windows Mobile	2011	Main	Completed
19	MOHD RIZAL BIN CHE HASSAN (A)	Sistem Komunikasi Pesanan Pergerakan Perang atau Combat Visual Message Communication System.	2011	Main	Completed
20	DEVENDRAJ A/L GOVINDARAJOO (B+)	Sistem Inkripsi Folder menggunakan RC4	2011	Main	Completed
21	NURUL IRYANI BINTI SAMSUDDIN (A+)	Sistem Penghantaran Mesej Di Antara "Client Server" Menggunakan Kaedah "Traffic Padding"	2011	Main	Completed
22	IDVINDERJIT SINGH A/L KARAMJIT SINGH (A)	Cell Tower Display System Using Google Earth and VB.NET	2012	Main	Completed

23	CHRISTINA CHEN MING HOUY (A)	Mobile Password Generator	2012	Main	Completed
24	MUHAMMAD SHAJUADI BIN SHAMSUDIN (B-)	Encryption Algorithm Speed Comparer (Block Vs Stream)	2012	Main	Completed
25	MOHD RASYID BIN A TALIB (A)	Online Registration Password Strength Detector	2012	Main	Completed
26	AHMAD HAYATTA BIN RAZALI (A-)	Detect Suspicious JPEG File Based On Keyword and Filename	2013	Main	Completed
27	DAFIQAH BINTI MIOR RAYMAN (A)	HDD Serial Number Copy Protection	2013	Main	Completed
28	SHARIFAH NOOR FADZLEEN SHAFINAZ BT. SYED MOHD FAUZIE (A-)	JPEG Comment Secret Messaging System	2013	Main	Completed
29	MUHAMMAD FAISAL BIN JAMAL (B)	Secure Notepad	2013	Main	Completed
30	ZULKARNAIN BIN MAHADI (B-)	Brute Force Password Cracker	2013	Main	Completed
31	MOHAMAD HAFIZ BIN AHMAD FAUZI (B)	Combinatio n Lock Login	2013	Main	Completed
32	MOHAMAD HISYAM BIN SHAHARUDIN (B+)	Secure Voice Recorder	2013		
33	AZRUN AZHIM BIN MOHD ZAHARI (D+)	Sistem Rekod Pensyarah	2013	Main	Completed
34	NURSYAFEERA AZEERA BINTI RAHIM (A-)	Sistem Login Berasaskan Masa	2014	Main	Completed
35	AROON KUMAR A/L APPARAO (A)	Time Synchroniz ation System (TSS)	2014	Main	Completed
36	MUHAMMAD FAIZ BIN FAZILLAH (A-)	Sistem Penyimpan an Video Selamat Menggunak an Kaedah Kriptografi	2014	Main	Completed

37	MUHAMMAD RAHIM BIN JAAFAR (A-)	Sistem Kawalan Kesiapsiagaan Server	2014	Main	Completed
38	AMIR ARIFFUDIN BIN AMINULLAH(A)	Keselamatan Sambungan Antara UAV Dan Telefon Android Menggunakan Bluetooth	2015	Main	Completed
39	NURHAZWANI HIKMAH BINTI HARME (A)	Penyimpanan Data Koordinat Latitud Dan Longitud UAV Melalui Telefon Android Ke Dalam Sistem Pangkalan Data Pada Komputer	2015	Main	Completed
40	NUR IMELIA BINTI IBRAHIM (A)	Pembangunan Aplikasi Penyelenggaraan Makmal Komputer menggunakan Rangka Kerja	2015	Main	Completed
41	MUHAMAD SYAHMI BIN AHMAD FAUZI (A)	Mobile Class Attendance System Using NFC Tag	2015	Main	Completed
42	NIK MUZAMER BIN MOHAMMAD (A)	Sistem Laporan Kesalahan Pegawai Kadet dan Hukuman	2015	Main	Completed
43	MUHAMAD SHUKRI BIN ZAKARIA (B)	Sistem Pengesan Steganografi Pada Imej Digital	2015	Main	Completed
44	KOONG DE KAI (A+)	Secure Military Dog Tag with Mobile Access Near-Field Communication	2015	Main	Completed

45	FATIN NADIAH BINTI MOHAMED ARIFF (A-)	Sistem Penghantaran Mesej Secara Berintegriti (Client)	2016	Main	Completed
46	INTAN NORAZLINA BINTI HAIRUDDIN (A)	Sistem Penghancuran Fail (File Wipe)	2016	Main	Completed
47	NUR FATIN SYAMIMI BINTI SHAFFI (A-)	Sistem Penghantaran Mesej Secara Berintegriti (Server)	2016	Main	Completed
48	SITI NUR SOLEHA BINTI ADAM (A)	Sistem Semakan Laman Sesawang menggunakan "Android"	2016	Main	Completed
49	LOONG MEN CHAU (A)	UKA Test Monitor using GPS	2016	Main	Completed
50	AHMAD MUZAKIR BIN ARIFIN (A)	Sentry Monitor using GPS	2016	Main	Completed
51	SYAFIQAH YUSRA BINTI MOHAMAD (A-)	Standalone Captcha Login Prototype	2016	Main	Completed
52	NOOR FAZLIENA BINTI BAHARIN (A+)	Sistem Pancaran Mesej Selamat (Beam)	2017	Main	Completed
53	SITI NOOR FARANA BINTI HISAMMUDDIN (A)	Sistem Penyimpanan Katalaluan Selamat Menggunakan Android	2017	Main	Completed
54	NOR KHAIRUN NABILA BINTI LUT (A-)	Sistem Menjejak Laluan (Traceroute)	2017	Main	Completed
55	MOHAMMAD AJRIL FEZERI BIN SOBRI (B+)	Sistem Peringatan Kelas Sains Komputer Menggunakan Geofence	2017	Main	Completed
56	NURLAILA SYAFIRA BINTI SHAPIEI (A-)	Sistem Penyelenggaraan Peralatan Masjid	2018	Main	Completed

57	NOORAIN BINTI MOHD TAJUDIN (A)	Sistem Diagnosis Pesakit PPAT	2018	Main	Completed
58	THIRUNGANAM A/L PANNY (A)	Sistem Pengesaha n Kehadiran Peperiksaa n Akhir UPNM Menggunak an Gambar dan Pengimbas OCR	2019	Main	Completed
59	LAU YEE SHYAN (A)	Sistem Laporan Kesalahan Parkir Kereta UPNM Menggunak an Pengecama n Aksara Optikal GPS Dan Gambar	2019	Main	Completed
60	MOHD NURZAMANI BIN MOHD ZAINI (A-)	Sistem Verifikasi Ijazah UPNM Menggunak an QR Code Selamat	2019	Main	Completed
61	NUR EMILIA BINTI MOHAMMAD SHAHBUDIN	Sistem Penjanaan Kata Laluan Yang Senang Untuk Diingati Dan Susah Untuk Diteka Menggunak an Senarai Lagu Melayu Sebagai Benih	2020	Main	Completed
62	YASMIN SURAYA BINTI JAMIAN	Sistem Penjanaan Nombor Perdana Besar Tahap Trillion Menggunak an Teknik	2020	Main	Completed

		Sieve of Eratosthenes			
63	HAIDAH SYAHZANI BINTI MOHAMAD HAIRUNISHAH	Sistem Pengesanan Keberkesanan Kata Laluan yang panjang menggunakan Brute Force	2020	Main	Completed
64	NUR AMALIA NAZIFA BINTI MAD NAZIR	Sistem Terjemah Sistem Nombor Decimal (Vigintillion) ke Bahasa Inggeris	2020	Main	Completed
65	SITI NUR AISYAH BINTI MOHD KHIR	Sistem Notepad Selamat Menggunakan Advanced Encryption Standard (AES)	2021	Main	Completed
66	FARHAH NAQIBAH BINTI MOHD ZULKEPLI	Sistem Cincang Fail Menggunakan Random Cipher	2021	Main	Completed
67	NUR ALIAH BINTI SHABUDIN	Sistem Pengesanan Dan Amaran Capaian Halaman Web	2021	Main	Completed
68	NURUL IZZAH BINTI MUHAMAD ROSLAN	Sistem Pertukaran Nombor Besar (Vigintillion) - Decimal, Binary Dan Hexadecimal	2021	Main	Completed
69	NURUL ANISYA BINTI AHMAD KHAIRILNIZAM	Large Integer (Vigintillion) Calculator System	2021	Main	Completed
70	MUHAMMAD SHAHRIN ANUAR BIN MOHD SHAMIZAM @ SUHAIMI (A)	Prototaip Sistem Log Masuk Menggunakan	2022	Main	Completed

		an Konsep Tombol Peti Besi(Safe)			
71	CHEONG XIN YIN (A+)	Large File Transmission Integrity System (2 Gb And	2022	Main	Completed
72	NURUL IZZAHTUL UMMI MOHD RADIN (A+)	Below) Between Naval Base and Ship Using Secure Hash Algorithm 256 (SHA 256)	2022	Main	Completed
73	MUHAMMAD ZULFAQAR BIN NORSAIDI (A+)	Sistem Penghantaran Fail Besar Yang Telah	2022	Main	Completed
74	MOHAMAD NAUFAL AZIM BIN MOHD FAUZAY (A+)	Dimampatkan (2GB Kebawah) Selamat Di Antara Kapal Dan Pangkalan Tentera Laut Menggunakan	2022	Main	Completed

## 2.0 RESEARCH, PUBLICATION AND PRESENTATION

### 2.1 Research Projects

(Please list in chronological order and state: title, list of researchers, grant/year, source/amount and status)

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1	DEVELOPMENT OF A PROTOTYPE AUTOMATED APPLICATION ABLE TO CAPTURE, STORE AND STUDY SUSPICIOUS FILES IN AN ORGANIZATION'S NETWORK (01-01-19-SF0116)	Principal	2010	RM73,600	Completed
2	OPTIMAL GRID PATTERN MODEL FOR SEARCH AND RESCUE OPERATION IN	Principal	2010	RM66,000	Completed



No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
	DIPTEROCARP FOREST (FRGS/2/10/SG/03/1)				
3	OPTIMAL COMMAND AND CONTROL METHOD FOR MALAYSIAN ARMY SMALL UNITS IN A DIPTEROCARP FOREST ENVIRONMENT (ERGS/1/11/PK/02/18)	Principal	2011	RM77,545	Completed
4	DEVELOPMENT OF A SEARCH AND RESCUE TACTICAL MANAGEMENT SYSTEM (SARTAMS) WORKING PROTOTYPE FOR COMMERCIALIZATION PURPOSES BASED ON FRGS RESEARCH - FRGS/2/2010/SG/UPNM/03/1 - OPTIMAL GRID PATTERN MODEL FOR SEARCH AND RESCUE OPERATION IN DIPTEROCARP FOREST (PRGS/1/2012/BK/06/UPNM/02/1)	Principal	2012	RM234,000	Completed
5	ROTARY WING UAV FOR FORMATION SEARCH AND RESCUE OPERATION IN DIPTEROCARP FOREST (F-ECO/5(UPNM-12)	Principal	2012	RM83,000	Completed
6	DEVELOPING A MALAYSIAN FOREST BATTLEFIELD ENVIRONMENT SIMULATOR FOR MALAYSIAN ARMY SMALL UNIT TACTICS (IC/RDC/L/MMD/2013/09/151)	Principal	2013	RM10,000	Completed
7	DEVELOPMENT OF SARTAMS: SEARCH AND RESCUE TACTICAL MANAGEMENT SYSTEM FOR WORLDWIDE COMMERCIALIZATION (TF1213C373)	Principal	2014	RM1,108,000	Completed
8	PROTOTYPE MOBILE SYSTEM ABLE TO ENHANCE THE EFFECTIVENESS OF SEARCH AND RESCUE EFFORT FOR INDIVIDUALS TRAPPED IN A COLLAPSED STRUCTURE IN THE AFTERMATH OF AN EARTHQUAKE (PRGS/1/2015/ICT01/UPNM/02/1)	Principal	2015	RM60,000	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
9	MOSTI MALAYSIAN COMMERCIALIZATION YEAR (MCY 2017) GRANT (INOVASI/MCY/2018/01)	Principal	2017	RM230,000	Completed
10	NATIONAL TECHNOLOGY AND INNOVATION SANDBOX (NTIS) SANDBOX 2 GRANT (SF3/050/20(01-12))	Principal	2021	RM366,500	In Progress

## 2.2 Publications

### 2.2.1 Academic Journal

(Please list in chronological order and state: authors, year, title, publisher/journal, volume and number of pages (Please bold your name))

No.	Authors, year, title, publisher/journal, volume and number of pages (Please bold your name)	Type of Journal • ISI • SCOPUS • Peer-Reviewed
1	Journal of Modern Applied Science - Vol 6, No 11 (2012) - Mohd Hazali Mohamed Halip, Mohd Afizi Mohd Shukran, Omar Zakaria, <b>Syed Nasir Alsagoff Syed Zakaria</b> - DETECTION OF STEGANOGRAPHIC MESSAGES IN EMAIL ATTACHMENT	SCOPUS
2	Asian Journal of Business and Accounting, Nooraslinda Abdul Aris, Rohana Othman, Muhammad Anas Mohd Bukhori, Siti Maznah Mohd Arif, Mohamad Affendi Abdul Malek, Normah Omar and <b>Syed Nasir Alsagoff</b> (2013). EVALUATING FRAUD IN THE PUBLIC SECTOR USING BENFORD'S LAW	SCOPUS
3	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Nor Wahidah Zailan a, <b>Capt. Syed Nasir Alsagoff Syed Zakaria b</b> , Zaharin Yusoff c, Syahaneim Marzuki d, COMPARISON OF THE GRID SEARCH PATTERN AND THE CIRCLE SEARCH PATTERN FOR SEARCH AND RESCUE (SAR) OPERATIONS	SCOPUS
4	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Nor Wahidah Zailan a, <b>Capt. Syed Nasir Alsagoff Syed Zakaria b</b> , Zaharin Yusoff c, Syahaneim Marzuki d, SEARCH GRID PATTERN POSITIONING FOR SEARCH AND RESCUE (SAR) OPERATIONS IN FOREST AREAS	SCOPUS
5	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Noor Izzati Mohd Khalid a, <b>Capt. Syed Nasir Alsagoff Syed Zakaria b</b> , Zaharin Yusoff c, Syahaneim Marzuki d, COMMAND AND CONTROL COMMUNICATION FOR SEARCH AND RESCUE (SAR) OPERATIONS USING SMART PHONES FOR AUDIO, VIDEO AND MONITORING FUNCTIONS	SCOPUS
6	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Siti Nur Alidda Mohd Ghazalia, <b>Capt. Syed Nasir Alsagoff Syed Zakaria (R) b</b> , Lt Kol Mahendra K Sekaran Nair c, COMPARISON OF AIRSHIP UNMANNED AERIAL VEHICLES VERSUS ROTARY WING UNMANNED AERIAL VEHICLES FOR FORMATION BASED MOVEMENT	SCOPUS
7	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Siti Nur Alidda Mohd Ghazali a, <b>Capt. Syed Nasir Alsagoff Syed Zakaria (R) b</b> , Lt Kol Mahendra K Sekaran Nair c, FRAMEWORK FOR COMMAND AND CONTROL IN MARITIME SEARCH AND RESCUE (MSAR) OPERATIONS USING UNMANNED AERIAL VEHICLES IN FORMATION	SCOPUS
8	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Siti Nur Alidda Mohd Ghazali a, <b>Capt. Syed Nasir Alsagoff Syed Zakaria (R) b</b> , Zaharin Yusoff c, Lt Kol Mahendra K Sekaran Nair c, OBTAINING THE EXACT LOCATION OF TARGET SUBJECTS IN MARITIME SEARCH AND RESCUE (MSAR) OPERATIONS USING ROTARY WING UNMANNED AERIAL VEHICLES (UAVs)	SCOPUS
9	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Nur Syafikin Shaheera Mat Zaini a, <b>Capt. Syed Nasir Alsagoff Syed Zakaria (R) b</b> , Mohd Hazali Mohamed Halip c, Lt Kol Mahendra K Sekaran Nair c, EVOLUTION OF MOBILE COMPUTING HUMAN COMPUTER INTERACTION (HCI) TECHNOLOGY (WINDOWS TABLET AND ANDROID PLATFORM)	SCOPUS
10	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Nursyafeera Azeera Rahim a, <b>Capt. Syed Nasir Alsagoff Syed Zakaria (R) b</b> , Lt Kol Mahendra K Sekaran Nair c, COMPARISON OF METHODS IN RECOVERY ORIENTED COMPUTING FOR CLIENT-SERVER ARCHITECTURE	SCOPUS
11	IJDSET VOL 3 SAR ISSUE JUNE 2016 - Nor Wahidah Zailan a, <b>Capt. Syed Nasir Alsagoff Syed Zakaria b</b> , Zaharin Yusoff c, Syahaneim Marzuki d, COMPARISON	SCOPUS

OF THE GRID SEARCH PATTERN AND THE CIRCLE SEARCH PATTERN FOR SEARCH AND RESCUE (SAR) OPERATIONS
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### 2.2.2 Book/Chapter in Book:

(Please list in chronological order and state: authors, year, title, publisher, volume and number of pages  
(Please bold your name)

No.	Authors, year, title, publisher, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1	Pelan Strategik Pengajian Tinggi Negara – Koleksi Aktiviti Terpilih Siri 2 – Pembangunan Holistik Pelajar – Hari Tunas Wira (UPNM) – m/s 105 – 108. – Kementerian Pengajian Tinggi - 2011	National
2	INTERNATIONAL JOURNAL OF DEFENCE SCIENCE, ENGINEERING AND TECHNOLOGY (IJDSET VOL 3 SAR ISSUE JUNE 2016) - <b>IJDSET Theme Chief Editor</b>	International

### 2.2.3 Proceeding Articles :

(Please list in chronological order and state: authors, year, title, publisher/conference, volume and number of pages (Please bold your name)

No.	Authors, year, title, publisher/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1	International Conference on Advanced Material Engineering & Technology 2012 (ICAMET 2012) - 28 – 30 November 2012 - Nor Wahidah Binte Zailan, <b>Syed Nasir Alsagoff bin Syed Zakaria</b> , Mohd Afizi Mohd Shukran - METHOD OF SEARCH AND RESCUE IN DIPTEROCARP FOREST USING GPS TECHNOLOGY (SCOPUS)	International
2	Konferens Program Pemindahan Ilmu Peringkat Kebangsaan Pertama – 21 – 23 Ogos 2013 - Siti Nur Alidda bt Mohd Ghazali, <b>Syed Nasir Alsagoff bin Syed Zakaria</b> - AIRSHIP UNMANNED AERIAL VEHICLE VERSUS ROTARY WING UNMANNED AERIAL VEHICLE FOR FORMATION BASED MOVEMENT	National
3	The 2013 International Conferences on Computer Graphics, Visualization, Computer Vision, and Game Technology (VisioGame 2013) - 20 – 22 December 2013 - Advances in Intelligent Systems Research Journal (AISR Journal) ISSN 1951-6851 – Jakarta, Indonesia - METHOD OF TESTING MISSION CRITICAL DATA TRANSMISSION BETWEEN AN ANDROID DEVICE TO A WINDOWS PC VIA WIRELESS TCP COMMUNICATION: PCMOTE	International
4	3rd International Visual Informatics Conference 2013 (IVIC'13) – 13 -15 Nov 2013 - Fatin Farhana Abd Khalid, <b>Syed Nasir Alsagoff</b> , Mohd Hazali Mohamed Halip - EFFECTIVE METHOD OF MOBILE HUMAN COMPUTER INTERFACE FOR MILITARY OPERATION IN DIPTEROCARP FOREST (SCOPUS)	International
5	International Conference on Governance, Management and Financial Criminology (ICGMF) 2013, 2-5 September 2013, University of Waikato, Hamilton New Zealand, Rohana Othman, Muhamad Anas Mohd Bukhori, Nooraslinda Abdul Aris, Siti Maznah Mohd Arif, Mohamad Affendi Abdul Malek, Normah Omar and <b>Syed Nasir Alsagoff</b> . (2013). FRAUD DETECTION USING BENFORD'S LAW: A CASE STUDY ON PAYMENT VOUCHERS OF A PUBLIC-SECTOR ORGANIZATION IN MALAYSIA.	International
6	Konferens Program Pemindahan Ilmu Peringkat Kebangsaan Kedua – 9 – 11 Sept 2014 - Siti Nur Alidda bt Mohd Ghazali, <b>Syed Nasir Alsagoff bin Syed Zakaria</b> -	National

	COMMAND AND CONTROL FOR MARITIME SEARCH AND RESCUE OPERATIONS USING UNMANNED AERIAL VEHICLE IN FORMATION	
7	2016 International Conference on Information and Communication Technology (ICICTM'16) – 16-17 May 2016 - Noor Izzati Mohd Khalid, <b>Syed Nasir Alsagoff Syed Zakaria</b> , Zaharin Yusoff, Syahaneim Marzuki - COMMUNICATION FOR COMMAND AND CONTROL IN SEARCH AND RESCUE (SAR) OPERATIONS USING SMART PHONES FOR AUDIO, VIDEO AND MONITORING FUNCTIONS	International
8	2016 International Conference on Information and Communication Technology (ICICTM'16) – 16-17 May 2016 - Nor Wahidah Zailan, <b>Syed Nasir Alsagoff bin Syed Zakaria</b> , Zaharin Yusoff, Syahaneim Marzuki - DETERMINING AN APPROPRIATE SEARCH GRID PATTERN AND POSITIONING IT FOR SEARCH AND RESCUE OPERATIONS (SAR) IN FOREST AREAS	International
9	2016 International Conference on Information and Communication Technology (ICICTM'16) – 16-17 May 2016 - Siti Nur Alidda Mohd Ghazali, Hardy Azmir Anuar, <b>Syed Nasir Alsagoff Syed Zakaria</b> , Zaharin Yusoff, Syahaneim Marzuki - POSITION OF TARGET SUBJECTS IN MARITIME SEARCH AND RESCUE (MSAR) OPERATIONS USING ROTARY WING UNMANNED AERIAL VEHICLES (UAVS) (BEST PAPER)	International
10	5th International Visual Informatics Conference 2017 (IVIC'17) – 28-30 Nov 2017 - Nur Syafikin Shaheera Mat Zaini, <b>Syed Nasir Alsagoff Syed Zakaria</b> , Norshahriah binti Wahab - METHODS OF EVALUATING THE USABILITY OF HUMAN COMPUTER INTERACTION (HCI) DESIGN IN MOBILE DEVICES FOR SAR OPERATION	International
11	2018 International Conference on Information and Communication Technology (ICICTM'18) – 2-5 May 2018 - Syahaneim Marzukhi1, Nursyafeera Azeera Rahim, <b>Syed Nasir Alsagoff Syed Zakaria</b> -A MODEL FOR “MISSION CRITICAL MULTIPLE CLIENTS AND SINGLE SERVER OPERATION FOR FAILURE DETECTION AND RECOVERY SYSTEM”	International
12	8th International Visual Informatics Conference 2023 (IVIC'23) – 15-17 Nov 2023 - Syed Nasir Alsagoff Syed Zakari, Kuan Fook Chao1 and Zuraini Zainol - EXPLORING DATA WIPING PRACTICES IN THE ROYAL MALAYSI-AN AIR FORCE (RMAF) HQ	

### 2.3 Presentation:

(Please list in chronological order)

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1	Asia Pacific ICT Awards 2012 - Brunei	SARTAMS: Search and Rescue Tactical Management System	Represented Malaysia for R&D Category at the Asia Pacific APICTA Awards 2012 at Brunei	4 Dec 2012	APICTA
2	UTP Delta Tau Research Seminar Series	SARTAMS: Search and Rescue Tactical Management System	Invited Speaker	4 April 2013	UTP
3	Asia Pacific ICT Awards 2013 - Hong Kong	SARTAMS: Search and Rescue Tactical Management System	Represented Malaysia for e-Government & Services Category at the Asia Pacific APICTA Awards 2013 at Hong Kong	24 Nov 2013	APICTA
4	MSSA/CIDB International Construction Week (ICW)	GEMPALOCATE: Earthquake Zone Emergency Personal Locator	Invited Speaker	17 Sept 2014	CIDB

5	Asia Pacific ICT Awards 2014 - Indonesia	GEMPALOCATE: Earthquake Zone Emergency Personal Locator	Represented Malaysia for R&D Category at the Asia Pacific APICTA Awards 2014 at Indonesia	27 Nov 2014	APICTA
6	Asia Pacific ICT Awards 2016 - Taiwan	TACCOMS: Tactical Communications Operations Management System	Represented Malaysia for R&D Category at the Asia Pacific APICTA Awards 2016 at Taiwan	3 Dec 2016	APICTA
7	The 5th International Visual Informatics Conference 2017 (IVIC'17)	The 5th International Visual Informatics Conference 2017 (IVIC'17)	Invited Speaker	30 Nov 2017	IVIC (UKM)
8	Asia Pacific ICT Awards 2019 - Vietnam	TACCOMS: Tactical Communications Operations Management System	Represented Malaysia for Public Sector and Government Category at the Asia Pacific APICTA Awards 2019 at Vietnam	21 Nov 2019	APICTA
9	Asia Pacific ICT Awards 2020 - Malaysia	VECTORS: Vehicle Enhanced Combat Tactical Operation Response System	Represented Malaysia for R&D Category at the Asia Pacific APICTA Awards 2020 at MALaysia	11 Dec 2021	APICTA

### 3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

#### 3.1 Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award, Academic Assessor/ /Promotion Assessor (External), Visiting Professor/Fellowship, Editorial Board and other academic recognition.

No.	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1	2 Silver + 1 Bronze	2012	International	Malaysia Technology Expo 2012
2	Participated	2012	International	Defence Services Asia (DSA 2012)
3	Audition – 26 Mar 2012 Semi Finals – 31 May 2012	2012	National	MYEG Make the Pitch Season 2
4	1 Silver + 1 Bronze	2012	International	23rd International Invention, Innovation and Technology Exhibition (ITEX 2012)
5	1 Gold	2012	National	Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPI 2012) UPM
6	Winner Best of R&D  Represented Malaysia for R&D Category at the Asia Pacific APICTA Awards 2012 at Brunei.	2012	National	MSC Malaysia APICTA Awards 2012
7	4th Placing R&D Category	2012	International	Asia Pacific ICT Alliance Awards (APICTA) 2012 Brunei

	Best Presentation R&D Category			
8	1 Bronze	2012	International	Seoul International Invention Fair (SIIF 2012)
9	Special Jury Award + 1 Gold + 3 Silver + 2 Bronze	2013	International	Malaysia Technology Expo 2013
10	Gold Medal + Korean Invention Association Special Award	2013	International	4th International Engineering Invention & Innovation Exhibition 2013 (i-ENVEX 2013) UNIMAP
11	2 Bronze Medal	2013	National	Novel Research and Innovation Competition (NRIC 2013) USM
12	Top 90 World Wide	2013	International	Global Innovation through Science and Technology (GIST) Tech-I Competition
13	2 Silver	2013	International	International Conference On Informatics and Creative Multimedia 2013 (ICICM'13) UTM
14	Finalist – Best of E Best of e-Government & Services  Merit Award – Best of e-Government & Services	2013	National	MSC Malaysia APICTA Awards 2013
15	2 Gold Medal	2013	National	Malaysian Innovation Expo 2013 (MIEXPO 2013) UPM
16	Gold Medal  World Invention Property Association Special Award – Honor of Invention  The First PECIPTA Gold Medal for UPNM	2013	National	PECIPTA 2013
17	Participated	2013	International	Asia Pacific ICT Alliance Awards (APICTA) 2013 Hong Kong
18	Invention Academics Order of Merit  Software Order of Merit  Academia Order of Merit	2013	International	Korea Inventor Award Festival 2013
19	Finalist Best Software  Finalist Best Mobile & New Media Content / Application  Winner Best Mobile & New Media Content / Application	2013	National	3rd NEF-AWANI ICT Awards 2013
20	MTE 2014 Best Award + RM1000 + Croatia Award + 3 Gold + 2 Silver + 1 Bronze	2014	International	Malaysia Technology Expo 2014
21	1 Gold +1 Bronze	2014	International	5th International Engineering Invention & Innovation Exhibition 2014(i-ENVEX 2014) UNIMAP
22	Participated	2014	International	Defence Services Asia (DSA 2014)

23	1 Gold + 1 Silver	2014	International	25th International Invention, Innovation and Technology Exhibition (ITEX 2014)
24	1 Silver	2014	National	Kolokium & Pameran Penyelidikan dan Inovasi 2014 UPNM
25	Participated	2014	International	4th International Search & Rescue Conference & Exhibition (ISAR 2014)
26	Winner Best of R&D  Represented Malaysia for R&D Category at the Asia Pacific APICTA Awards 2014 at Indonesia.  Winner Best of R&D Asia Pacific APICTA Awards 2014  Finalist (Best of Communications Applications)	2014	National	MSC Malaysia APICTA Awards 2014
27	Silver Medal	2014	International	British Invention Show 2014
28	Gold Medal  IENA 2014 MRC IIE 2014 Best Invention  Chartered Institution of Highways & Transportation (CIHT) Winner Trophy  Chartered Institution of Highways & Transportation (CIHT) Challenge Trophy	2014	National	9th Malaysian Road Conference 2014 (MRC 2014)
29	MTE 2015 Best Award + RM1000 + 3 Gold + 1 Silver + 1 Bronze	2015	International	Malaysia Technology Expo 2015
30	Participated	2015	International	Langkawi International Maritime & Aerospace Exhibition (LIMA 2015)
31	Korea University Invention Association (KUIA) Award for Best International Invention + 2 Gold	20152015	International	6th International Engineering Invention & Innovation Exhibition 2015(i-ENVEX 2015) UNIMAP
32	Best Award + Gold Medal	2015	National	Defence Security and Sustainability (DSS 2015) Colloquium & Exhibition UPNM
33	2 Gold + 1 Silver	2015	International	26th International Invention, Innovation and Technology Exhibition (ITEX 2015)
34	1 Silver	2015	National	National Research & Innovation Competition Novel Research and Innovation Competition (NRIC 2015) USM
35	Finalist (Best of Security)  Finalist (Best of e- Inclusion & Community)  Finalist (Best of R&D)	2015	National	MSC Malaysia APICTA Awards 2015



36	Finalist/Top 12 World Wide (Emergency Response Category)  The first Malaysian finalist	2015	International	Verizon Powerful Answer Award 2015
37	Participated	2015	International	Defence Innovation Technology Acceleration Challenge (DITAC 2015)
38	2 Gold + 1 Bronze	2015	National	PECIPTA 2015
39	2 Silver + 1 Bronze	2016	International	Malaysia Technology Expo 2016
40	2 Gold + 1 Silver	2016	International	7th International Engineering Invention & Innovation Exhibition 2016(i-ENVEX 2016) UNIMAP
41	INPEX 2016 Award of Excellence + 3 Gold	2016	International	27th International Invention, Innovation and Technology Exhibition (ITEX 2016)
42	2 Gold	2016	International	Invention, Innovation & Design Exposition 2016 (IIDEX 2016) UITM
43	Winner Best of R&D  Represented Malaysia for R&D Category at the Asia Pacific APICTA Awards 2016 at Taiwan  Merit Best of R&D Asia Pacific APICTA Awards 2016	2016	National	MSC Malaysia APICTA Awards 2016
44	Finalist (Product Category) RM1000  Top 10 innovative product in Malaysia	2016	National	Anugerah Inovasi Negara 2016 (AIN 2016)
45	Participated	2016	National	The Kuala Lumpur Engineering Science Fair (KLESF) 2016
46	1 Gold + 1 Silver	2016	National	Pertandingan Reka Cipta dan Inovasi Institusi Pengajian Tinggi Swasta 2016 (PERINTIS 2016) UNITEN
47	Outstanding Inventor Award + 1 Gold + 2 Silver + 1 Bronze	2017	International	Malaysia Technology Expo 2017
48	1 Gold	2017	National	Invention, Innovation and Design (IID) Johor 2017
49	Participated	2017	International	Langkawi International Maritime & Aerospace Exhibition (LIMA 2017)
50	2 Gold	2017	International	28th International Invention, Innovation and Technology Exhibition (ITEX 2017)
51	Best Award Fundamental Research + 1 Gold + 1 Bronze	2017	National	Defence Security and Sustainability (DSS 2017) Exhibition UPNM
52	Winner Best of R&D	2017	National	MSC Malaysia APICTA Awards 2017
53	Finalist	2017	International	Asean ICT Award (AICTA 2017)

54	Special Award+ Gold Medal	2017	National	PECIPTA 2017
55	Anugerah Ulung + Anugerah Usahawan Penyelidik + RM230,000	2017	National	MOSTI TAHUN PENGKOMERSIALAN MALAYSIA (MCY) 2017
56	Indonesia Special Award + 2 Gold	2018	International	Malaysia Technology Expo 2018
57	1 Bronze	2018	National	Islamic Innovation Expo 2018 (i-Inova' 2018) USIM
58	1 Gold + 2 Silver	2018	International	8th International Engineering Invention & Innovation Exhibition 2018(i-ENVEX 2018) UNIMAP
59	Participated	2018	International	Defence Services Asia (DSA 2018)
60	2 Gold	2018	International	29th International Invention, Innovation and Technology Exhibition (ITEX 2018)
61	Participated	2018	International	Indo Defence 2018
62	Judge	2019	International	Malaysia Technology Expo 2019
63	Participated	2019	International	Langkawi International Maritime & Aerospace Exhibition (LIMA 2019)
64	1 Gold	2019	National	Defence Security and Sustainability (DSS 2019) Exhibition UPNM
65	1 Gold	2019	International	30th International Invention, Innovation and Technology Exhibition (ITEX 2019)
66	Special Award Top Winner Commercialization + Gold Medal	2019	National	PECIPTA 2019
67	Winner Best of Public Sector and Government	2019	National	MSC Malaysia APICTA Awards 2019
68	1 Gold	2020	International	Malaysia Technology Expo 2020
69	1 Silver	2020	International	31th International Invention, Innovation and Technology Exhibition (ITEX 2020)
70	Merit Best of R&D	2020	National	MSC Malaysia APICTA Awards 2020
71	1 Silver	2021	International	Malaysia Technology Expo 2021
72	3 Gold + 2 Best Award	2022	National and International	ITEX 2022, DSS 2022, PECIPTA 2022
73	Gold Medal Outstanding Innovation Awards	2023	International	Malaysia Technology Expo 2023
74	Silver Medal	2023	International	34st International Invention, Innovation and Technology Exhibition (ITEX 2023)

### 3.2 Consultancy work that benefited to the University.

(Please list in chronological order and state: title, year, sponsor, value and duration of consultancy)

No.	Title	Year	Sponsor	Value	Duration
1	TACCOMS: TACTICAL COMMUNICATION OPERATION MANAGEMENT SYSTEM	2016 - 2022	ARS Sejahtera Sdn Bhd + RITES Sdn Bhd + NADMA	RM568,700	5 Years
2.	TACCOMS: TACTICAL COMMUNICATION OPERATION MANAGEMENT SYSTEM	2022 -	Mutiara Technology Sdn. Bhd	RM1,000,000	3 Years
3.	VECTORS: VEHICLE ENHANCED COMBAT TACTICAL OPERATION RESPONSE SYSTEM	2022-	DRB-HICOM Defence Technologies Sdn Bhd (DEFTECH)	RM3,000,000	3 Years
4	SMART SAILOR SYSTEM	2023	MIM Defence Sdn Bhd	RM3,000,000	3 Years

### +3.3 Service to the University

Service to the university such as Vice Chancellor/Deputy Vice Chancellor/Dean/Director, Deputy Dean/Deputy Director/Unit Coordinator/Hostel Warden, Programme Chairperson/ Assistant Warden/Fellow. Representing University in Sports and Other Non-Academic Activities. Professional/Academic Association (Committee Member).

(Please list in chronological order and state: position/membership and duration)

No.	Position/Membership	Duration
1	IPMO Project Leader	2009-2012
2	Deputy Director ICT Center	2012-2013
3	Director of Student Development	2013-2014
4	AJK Algoritma Kriptografi Negara (MySEAL)	2016 -
5	Ahli Panel Penilai Penerbitan Buku dan Makalah Jurnal Akademik Cemerlang UPNM (AAC UPNM)	2016 -
6	AJK Penyelarasan Penyelidikan Gempa Bumi dan Tsunami (MET Malaysia)	2015 -
7	AJK Jawatankuasa Penyelidikan dan Inovasi (UPNM)	2010 -
8	AJK International Visual Informatics (IVIC)	2008 -
9	AJK Semakan Kurikulum Jabatan Sains Komputer	2007 -
10	AJK Projek Sarjana Muda	2007 -

### 3.4 Service to the community

(Please list in chronological order)

<b>No.</b>	<b>Organization</b>	<b>Role</b>	<b>Start Date</b>	<b>End Date</b>	<b>Level</b>
1	NADMA	Consultant	2017	-	Tactical Operations
2	MINDEF	Consultant	2019	-	Armoured and Mechanized Operations

1. **National Technology and Innovation Sandbox (NTIS) grant recipient 2021**
2. **Sold SARTAMS to National Disaster Management Agency (NADMA) open tender through RITES Sdn Bhd with ARS Sejahtera Sdn Bhd as supplier for RM568,700 in July 2020**
3. **Presented TACCOMS to the Agong, Prime Minister, Deputy Prime Minister, Minister of Defence and Minister of Education in 2019**
4. **MOSTI Tahun Pengkomersialan Malaysia (Malaysian Commercialization Year (MCY 2017))**
  - **Anugerah Ulung (Supreme Award)**
  - **Anugerah Usahawan Penyelidik (Researcher Entrepreneur Award)**
  - **RM230,000 Grant**
5. **TACCOMS is Minister of MOSTI Special KPI Product (MCY 2017)**
6. **ASTRO Innovathon 2023 Finalist**
7. **Proof of concept testing during LIMA 2023**
8. **1 x Outstanding Innovation Award – Malaysia Technology Expo (MTE 2023)**
9. **1 x Outstanding Inventor Award – Malaysia Technology Expo (MTE 2017)**
10. **1 x International Best Award**
  - **APICTA Best of R&D Awards 2014 Jakarta, Indonesia**
11. **1 x International Merit Award**
  - **APICTA Merit Best of R&D Awards 2016 Taiwan**
12. **23 Best Awards**
  - **5 x International Level**
    - **I-Envex 2011**
    - **ITEX 2011 - Ram Rais Award**
    - **MTE 2014**
    - **MTE 2015**
    - **I-Envex 2015 - Korea University Invention Association (KUIA) Award for Best International Invention**
  - **14 x Nasional Level**
    - **MSC MALAYSIA APICTA 2012 (Best of Research and Development)**
    - **3rd NEF-AWANI ICT Awards 2013**
    - **MSC MALAYSIA APICTA 2014 (Best of Research and Development)**
    - **IENA 2014 MRC IIE 2014 Best Invention**
    - **Chartered Institution of Highways & Transportation (CIHT) Winner Trophy**
    - **Chartered Institution of Highways & Transportation (CIHT) Challenge Trophy**
    - **MSC MALAYSIA APICTA 2016 (Best of Research and Development)**
    - **MSC MALAYSIA APICTA 2017 (Best of Research and Development)**
    - **Anugerah Ulung (Supreme Award) MOSTI Malaysian Commercialization Year (MCY 2017)**
    - **Anugerah Usahawan Penyelidik (Researcher Entrepreneur Award) MOSTI Malaysian Commercialization Year (MCY 2017)**
    - **MSC MALAYSIA APICTA 2019 (Best of Government and Public Sector)**
    - **PECIPTA 2022 – Best Award (Smart technology and Systems (Next-Generation Engineering & Manufacturing))**
  - **4 x UPNM Level**
    - **DSS 2015**
    - **DSS 2017 (Best of Fundamental Research)**
    - **DSS 2019 (Best of Applied Research)**

- **DSS 2022 (Best of the Best)**

### **13. 1 Merit Award**

- **1 x Nasional Level**
  - **MSC MALAYSIA APICTA 2013 (Best of E Best of e-Government & Services)**

### **14. 9 Special Awards**

- **MTE 2013 – Jury Award**
- **I-Envex 2013 - Korean Invention Association Special Award**
- **PECIPTA 2013 - World Invention Property Association Special Award (Honor of Invention)**
- **MTE 2014 – Croatia Award**
- **ITEX 2016 - INPEX 2016 Award of Excellence**
- **PECIPTA 2017 – Special Award**
- **MTE 2018 – Indonesia Award**
- **PECIPTA 2019 – Top Winner Commercialization**
- **MTE 2020 – Croatia Award**

### **15. 55 Gold**

- **41 x International Level**
- **10 x National Level**
- **4 x UPNM Level**

### **16. 31 Silver**

- **27 x International Level**
- **3 x National Level**
- **1 x UPNM Level**

### **17. 26 Bronze**

- **11 x International Level**
- **9 x National Level**
- **6 x UPNM Level**

### **18. 2013 Korea Inventor Award Festival**

- **Invention Academics Order of Merit**
- **Software Order of Merit**
- **Academia Order of Merit**

### **19. National Innovation Award 2016 (Anugerah Inovasi Negara 2016) Finalist – Product Category**

#### **20. Top 10 innovative product in Malaysia 2016**

21. Participated in 5 x Defence Services Asia (DSA 2010,2012,2014,2018, 2022)
22. Participated in 4 x Langkawi International Maritime & Aerospace Exhibition (LIMA 2011, 2015, 2017, 2019)
23. Presented to JKKOTD (26 April 2019 – TACCOMS, 10 Mar 2020 – VECTORS)
24. Approved for JKKOTD Trials (TACCOMS, VECTORS)
25. 2016 International Conference on Information and Communication Technology (ICICTM'16) Best Paper
26. The first UPNM R&D product to be commercialized - SARTAMS – 2013
- 27. The first UPNM R&D product for commercialization (RM568,700) - SARTAMS - 2020**
28. Most number of entries by an individual (6 products) – MTE 2013
29. Most number of medals by an individual (1 x Special Award, 1 x Gold, 3 x Silver, 2 x Bronze) – MTE 2013
30. Most number of entries by an individual (7 products) – MTE 2014
31. Most number of medals by an individual (1 x Best Award, 1 x Special Award, 3 x Gold, 2 x Silver, 1 x Bronze) – MTE 2014

32. **The first UPNM Gold Medal - PECIPTA 2013**
33. **The first UPNM Double Gold Medal - PECIPTA 2015**
34. **UPNM Double Gold Medal – PECIPTA 2019**
35. **PECIPTA Triple Special Award (2013, 2017 and 2019)**
36. MDEC Most Promising Solution Award 2010
37. Imagine Cup 2011 - Semi Finalist
38. Imagine Cup 2012 - Finalist
39. **MSC Malaysia APICTA 13 times finalist (2011-2021)**
40. **MSC Malaysia APICTA 2011 Awards – Finalist (Communication Application)**
41. **MSC Malaysia APICTA 2012 Awards – Winner Best of R&D Award**
42. **MSC Malaysia APICTA 2013 Awards – Merit for Best of e-Government & Services**
43. **MSC Malaysia APICTA 2014 Awards – Winner Best of R&D Award/ Finalist (Communication Application)/Double Finalist**
44. **MSC Malaysia APICTA 2015 Awards –Triple Finalist (Security Application, e-Inclusion & Community and R&D)**
45. **MSC Malaysia APICTA 2016 Awards – Winner Best of R&D Award**
46. **MSC Malaysia APICTA 2017 Awards – Winner Best of R&D Award**
47. **MSC Malaysia APICTA 2019- Double Finalist (Best of Public Sector and E-Government and Internet of Things (IOT))**
48. **MSC Malaysia APICTA 2019 Awards- Winner Best of Public Sector and E-Government**
49. **MSC Malaysia APICTA 2020- Double Finalist (Best of R&D and Public Sector and E-Government)**
50. **MSC Malaysia APICTA 2020- (Merit Best of R&D)**
51. **MSC Malaysia APICTA – Quad Winner Best of R&D Award (2012 – SARTAMS, 2014 – GEMPALOCATE, 2016 – TACCOMS, 2017 - VFORS)**
52. **Asia Pacific ICT Award 2014 - Winner Best of R&D Award (Jakarta)**
53. **Asia Pacific ICT Award 2016 - Merit Best of R&D Award (Taiwan)**
54. Represented Malaysia for Asia Pacific Information and Communications Technology Awards (APICTA) 2012 at Brunei (4<sup>th</sup> Placing)
55. Represented Malaysia for Asia Pacific Information and Communications Technology Awards (APICTA) 2013 at Hong Kong
56. Represented Malaysia for Asia Pacific Information and Communications Technology Awards (APICTA) 2014 at Indonesia
57. Represented Malaysia for Asia Pacific Information and Communications Technology Awards (APICTA) 2016 at Taiwan
58. Represented Malaysia for Asia Pacific Information and Communications Technology Awards (APICTA) 2017 at Bangladesh
59. Represented Malaysia for Asia Pacific Information and Communications Technology Awards (APICTA) 2019 at Vietnam
60. Represented Malaysia for Asia Pacific Information and Communications Technology Awards (APICTA) 2021 at Malaysia
61. Represented Malaysia for Asia Pacific Information and Communications Technology Awards (APICTA) 7 Times (2012,2013,2014,2016,2017,2019, 2021)
62. 3rd NEF-AWANI ICT Awards 2013 - Finalist Best Mobile & New Media Content / Application/Finalist Best Software  
3rd NEF-AWANI ICT Awards 2013 - Winner Best Mobile & New Media Content / Application
63. Product selected for Innovation Entry Point Project 2012 by the Malaysian Innovation Agency

64. GIST Tech-I 2013 – Top 90 worldwide
65. Verizon Powerful Answer Award 2015 - Finalist/Top 12 World Wide (Emergency Response Category) –The only finalist from Asian country – The first Malaysian finalist
66. Social Innovation Camp KL 2013 – Top 6
67. MYEG Make the Pitch Season 1 - Grand Finalist
68. MYEG Make the Pitch Season 2 – Semi Finalist
69. Top 4% Academia.edu researcher worldwide – October 2015
70. 10 x Consultancy (MOUs and MOAs)
71. 4 x patent filed and granted
  - 2011001337 Filed April 2011 - A SYSTEM AND METHOD FOR SEARCH AND RESCUE - SEARCH AND RESCUE TACTICAL MANAGEMENT SYSTEM (SARTAMS) – **Granted**
  - PI 2016700274 Filed Jan 2016 – A SYSTEM FOR TRACKING USERS AND A METHOD THEREOF - **Granted**
  - PI 2016703855 Filed Oct 2016 – A METHOD AND A SYSTEM FOR SECURE TRANSMISSION OF INFORMATION - **Granted**
  - PI 2017700137 Filed Jan 2017 – METHOD OF NETWORK TRAFFIC PADDING UTILIZING DUAL FLOW APPROACH FOR PREVENTING TRAFFIC ANALYSIS AND SYSTEM THEREOF - **Granted**
72. R&D Award for MOHE Citra Innovation Night 2013 – 5 Mar 2013
73. Anugerah Perkhidmatan Cemerlang 2009 – 17 May 2010
74. Academic Excellence Awards 2011 - 23 Dec 2011 - Research and Innovation.
75. Sijil Penghargaan Penyelidikan dan Inovasi 2012
76. Sijil Penghargaan Penyelidikan dan Inovasi 2013
77. Sijil Penghargaan Penyelidikan dan Inovasi 2014
78. Sijil Kecemerlangan 2012
79. Sijil Kecemerlangan 2013
80. Anugerah Perkhidmatan Cemerlang 2013 – 27 Jun 2014
81. Personality of the Year at UPNM 2014
- 82. Total Amount Grant Money – RM2,298,645 (All as leader)**
  - **FRGS** (Fundamental)
  - **ERGS** (Exploratory)
  - **PRGS x 2** (Prototype)
  - **KTP** (Knowledge Transfer)
  - **EScienceFund**
  - **Technofund**
  - **MOSTI MCY 2017 Grant**
  - **NTIS Sandbox 2**

**83. The only UPNM lecturer with products on display at 4 booths during Defence Services Asia (DSA 2022) – UPNM, ARS, Mutiara Technology and Deftech**

**84. 3 MOUs signed during DSA 2022 – Beta Inovasi, Mutiara Technology and Deftech**

**Total: 112 medals + 1 Outstanding Innovation Award + 1 Outstanding Inventor Award + 1 International Best Award + 1 International Merit Award+ 23 Best Awards + 1 National Merit Award + 9 Special Awards**

**55 Gold 31 Silver 26 Bronze**

**MTE 8B 13S 12G**

**ITEX 1B 6S 13G**



**PECIPTA 3B 7G**

<b>2010 1S</b>	<b>1</b>
<b>2011 4B 3S 2G</b>	<b>9</b>
<b>2012 3B 3S 1G</b>	<b>7</b>
<b>2013 4B 5S 6G</b>	<b>15</b>
<b>2014 2B 5S 6G</b>	<b>13</b>
<b>2015 2B 3S 10G</b>	<b>15</b>
<b>2016 1B 4S 8G</b>	<b>13</b>
<b>2017 2B 2S 6G</b>	<b>10</b>
<b>2018 1B 2S 5G</b>	<b>8</b>
<b>2019 4G</b>	<b>4</b>
<b>2020 1B 1S 1G</b>	<b>3</b>
<b>2021 1S</b>	<b>1</b>
<b>2022 6B 5G</b>	<b>11</b>
<b>2023 1G 1S</b>	<b>2</b>

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**Total: 112**

**Best Award - ITEX, MTE, APICTA, PECIPTA**

**Leader – ESCIENCEFUND, FRSG, ERGS, PRGS x 2, TECHNOFUND, NTIS**

**Commercialization - RM568,700**

## **Research Area of Expertise**

- **IT SYSTEM INNOVATIONS**

- MALWARE
- CRYPTOGRAPHY
- CLIENT/SERVER SYSTEM
- COMPUTER SYSTEM SECURITY
- FORENSICS ACCOUNTING
- SEARCH AND RESCUE
- FUTURE SOLDIER
- HUMAN COMMAND AND CONTROL
- UAV, UGV AND USV COMMAND AND CONTROL
- NETWORK CENTRIC TECHNOLOGIES
- LOCATIONING TECHNOLOGIES
- MOBILE APPLICATIONS (WINDOWS MOBILE AND ANDROID)