



**[NAME]:** Chng Chern Wei  
**[CURRENT POSITION TITLE]:** Assistant Professor  
**[FACULTY]:** FEIT  
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## 1. Academic Qualification

No.	QUALIFICATION	FIELD OF SPECILIZATION	NAME OF AWARDING INSITUTION & COUNTRY	START DATE – END DATE
1.	Doctor of Philosophy (Computer Science)	Security in Computing	Universiti Putra Malaysia Serdang, Selangor, Malaysia.	2015 – 2024
2.	Master of Computer Science	Computer Network	Universiti Putra Malaysia Serdang, Selangor, Malaysia.	2013 – 2015
3.	Bachelor in Information Technology	Computer Network	Universiti Utara Malaysia Sintok, Kedah, Malaysia.	2001 - 2004
4.	Diploma in Electronic Engineering (Computer)	System Computer	Politeknik Ungku Omar Ipoh, Perak, Malaysia.	2000 - 2001
5.	Certificate in Electronic Engineering (Computer)	System Computer	Politeknik Port Dickson Port Dickson, Negeri Sembilan, Malaysia.	1998 - 1999

## 2. PREVIOUS EMPLOYMENT RECORD

No.	START DATE – END DATE	POSITION	JOB NATURE	EMPLOYER / COMPANY
1.	2023 - 2024	Senior Lecturer HOD – Computing Department	Lecturing / Research	UOWM KDU Penang University College, Penang, Malaysia.
2.	2018 – 2023	Assistant Professor Dean of FICT Director of Computer Centre	Lecturing / Research	New Era University College, Kajang, Selangor, Malaysia.
3.	2014 – 2018	Computer Laboratory Demonstrator	Teaching / Tutoring	Universiti Putra Malaysia, Serdang, Malaysia.
4.	2013 – 2014	Business Development Manager (Software Development)	Software Development	Bites & Bytes Network, Butterworth, Penang, Malaysia.
5.	2004 – 2013	Technical Support Executive	Technical Support and Applications R&D	Genting Malaysia Berhad, Genting Highlands, Malaysia.



### 3. PROFESSIONAL QUALIFICATION / MEMBERSHIP (NATIONAL / INTERNATIONAL)

No.	TYPE OF QUALIFICATIONS / MEMBERSHIP	GOVERNED BY WHICH BODY / COMPANY / ASSOCIATION / OTHERS	AWARDED YEAR / MEMBERSHIP DURATION
1.	Professional Member	Persatuan Teknologi Pengkomputeran Maklumat Malaysia (PTPMM)	Since 2022
2.	Professional Technologies	Malaysia Board of Technologists (MBOT)	Since 2020
3.	Graduate Technologist	Malaysia Board of Technologists (MBOT)	Since 2019
4.	Badminton Umpire (BAC Level)	Badminton Association of Malaysia (BAM)	Since 2014
5.	Professional Member	Financial Planning Association of Malaysia (FPAM)	Since 2012
6.	Professional Member	Financial Planning Association of Malaysia (FPAM)	Since 2008

### 4. RECOGNITION AWARD (NATIONAL / INTERNATIONAL)

No.	TYPE OF AWARD RECEIVED	RECEIVED FROM WHICH BODY / COMPANY / ASSOCIATION / OTHERS	RECEIVED YEAR
1.	Silver Medal (International Level)	7th International Invention Innovation Competition, Canada. Project Title: IOT Air Monitoring System	2022
2.	Special Awards (International Level)	Canadian Special Award of Excellence. Project Title: IOT Air Monitoring System	2022
3.	Special Prize (International Level)	The National Association for Science and Research, Lebanon. Project Title: IOT Air Monitoring System	2022
4.	Best Lecturer (University Level)	The New Era Teaching Excellence Award 2019	2020
5.	Finalist (National Level)	MyDroneX University Drone Competition Project Title: Future Drone in Road Accident Rescue.	2019



6.	Best Presenter (International Level)	IEEE International Conference Project Title: DNA-Based S-Box For Block Cipher.	2018
7.	Finalist (National Level)	PROCOM 2018 Software Programming Innovation Competition Project Title: Augmented Reality for Kids Education.	2018

## 5. CONSULTANCY SERVICES / COMMUNITY SERVICES

No.	ORGANIZATION / EVENT / PROJECT	DATE / DURATION	VENUE / COMPANY	ROLE / POSITION
1.	STEM Advisor / Subject Expert Panel Program: RBT & ASK.	2022 - 2024	SMK Voldor, SPS, Penang	Technical Advisor
2.	Professional Certification Examination	2022	CyberSecurity Malaysia	Examination Panel
3.	HRDF Training Trainer & Advisor	2022 - 2024	Master Skill Tech Academy (HRD & MBOT Training Provider)	Academics Advisor
4.	Diploma Teknologi Sistem Pengurusan Pangkalan Data dan Aplikasi Web	2021	Kolej Vokasional Kuala Selangor	External Panel
5.	Diploma Teknologi Sistem Pengurusan Data & Aplikasi Web	2021	Kolej Vokasional Shah Alam	External Panel
6.	Computer Network Service (IT-030-3:2013)	2020	ISBAUK Thinking Skills Academy	Evaluation Officer (Pegawai Penilai)
7.	Diploma In Information Technology	2019 - 2021	Oneworld Han Xin College	Academics Advisor
8.	Malaysian Skills Certificate (Sijil Kemahiran Malaysia) Programme: 1. Application Development [IT-010-3:2016] 2. Computer Operations [IT-020-3:2013] 3. Computer Network Service [IT-030-3:2013]	2019 - 2025	Department Skills Development (Jabatan Pembangunan Kemahiran - JPK)	External Examiner/Panel For SLDN, PPT & SLaPB



**6. CONFERENCES AND TRAININGS**

<b>No.</b>	<b>TITLE OF THE CONFERENCES / TRAINING</b>	<b>DATE</b>	<b>TRAINING VENUE</b>	<b>ORGANIZE BY SPEAKER / TRAINER</b>
1.	2024 Education Conference Majlis Pengetua Sekolah Menengah Conforming Malaysia	April 18 & 19, 2024	St Giles The Wembley Hotel, Penang	Keynote Speaker Title: CyberSecurity Today & ChatGPT
2.	Ethical Hacking for Network Security	November 27, 2023 – December 1, 2023	Online	Trainer HRDC Training
3.	Cybersecurity Essentials: Protecting Your Digital Word	September 25 – 29, 2023	Online	Trainer HRDC Training
4.	International Conference: Interaction Between Islamic, Malay, and Chinese Civilizations in Southeast Asia (ITIMT)	September 16 – 17, 2023	New Era UC	Presenter Title: Augmented Reality (AR) Technology in the Pedagogical Approach for the History Curriculum between the Malacca Malay Sultanate and the Chinese.
5.	17 <sup>th</sup> Johor Chinese Independent High School Computer Society Camp.	August 29 – 30, 2023	Pei Chun High School	Speaker Title: Collaboration Between Humans and AI.
6.	Data Privacy and Security: Best Practices in The Digital Age	March 27 – 31, 2023	Room A, PTIPC	Trainer HRDC Training
7.	6 <sup>th</sup> Staff Seminar: Lecture Series.	August 18, 2021	New Era UC	Speaker Title: DNA Approach for Password Conversion Generator.
8.	VI Summit (FinEduTech) 2021.	August 7 – 8, 2021	Online	Keynote Speaker Title: The E-Commence Today move with Financial Technology (FinTech) Platform.
9.	CyberSecurity Essential For Non-IT Executive	March 29 – April 02, 2021	Master Skill Technology Academy	Trainer HRDC Training
10.	1st International Conference on Emerging Technology & Innovative Application (ICETiA19)	October 21 – 22, 2019	MaGIC, Cyberjaya	Keynote Speaker Title: The secret of CyberSecurity: DNA- Based Cryptographic.



## 7. RESEARCH AND PUBLICATION

### RESEARCH / PUBLICATION / JOURNALS / BOOKS / OTHER

1. Kah Poh Lee, **Chern Wei Chng**, Dong Ling Tong & Kwan Lee Tseu. 2023. *Optimizing Energy Consumption on Smart Home Task Scheduling using Particle Swarm Optimization*. The 14th International Conference on Ambient Systems, Networks and Technologies. Belgium: March 15-17, 2023 Elsevier: Vol. 220, pp. 195-201. <https://doi.org/10.1016/j.procs.2023.03.027> (Scopus Elsevier, Google Scholar, DOAJ, and more...)
2. **Chng Chern Wei** & Tadiwa Elisha Nyamasvisva. 2022. *DNA-based Approach of Security Analysis for Cloud-based ERP System*. International Journal of Engineering Research and Applications. ISSN: 2248-9622, Vol. 12, Issue 9, September 2022, pp. 38-42 (Google Scholar, EBSCO, ISC, DOAJ, Ulrich's, CiteSeerX, and more...)
3. **Chng Chern Wei**, Siew Woei Shen, Law Teng Yi & Tee Eng Hong. 2022. *Security Criterion Analysis for Block Cipher Using S-Box Evaluation Tool and Cryptanalysis Tool*. International Journal of Engineering Inventions. e-ISSN: 2278-7461, p-ISSN: 2319-6491. Volume 11, Issue 9 [September. 2022] PP: 43-46 (Google Scholar, EBSCO, ISC, DOAJ, Ulrich's, CiteSeerX, and more...)
4. **Chng Chern Wei** & Tadiwa Elisha Nyamasvisva. 2022. *A Review of Cloud-based ERP in Security Perspective*. International Journal of Engineering Research and Applications. ISSN: 2248-9622, Vol. 12, Issue 8, August 2022, pp. 66-70 (Google Scholar, EBSCO, ISC, DOAJ, Ulrich's, CiteSeerX, and more...)
5. **Chng Chern Wei**, Widura Abd Kadir & Siew Woei Shen. 2022. *Development and Effectiveness of Rubric-Based Assessment for Computer Science Final Year Project*. International Conference on Business Studies and Education (ICBE). e-ISSN: 2785-9479, pp. 53-67 (Google Scholar, EBSCO, ISC, DOAJ, Ulrich's, CiteSeerX, and more...)
6. Wan Nur Eliana & **Chng Chern Wei**. 2020. *A Review of the Best Practice Forensic Tools for Storage Recovery*. 4th International Conference on Computer Assisted System in Health. CASH2020, Oct 2020.
7. **Chng Chern Wei**. 2019. *A Review of Financial Technology: Malaysia Perspective*. International Journal of Science, Engineering and Economics Research (IJSEN), vol. 4, no. 2, pp. 25-32. (Google Scholar, EBSCO, ISC, DOAJ, Ulrich's, CiteSeerX, and more...)
8. **Chng Chern Wei**, Sharifah Md. Yasin, Mohd. Taufik Abdullah, and Nur Izura Udzir. 2018. *A Review of DNA-Based Block Cipher*. International Journal of Computer Networks and Communications Security, vol. 6, no. 9, pp. 196-200. ISSN 2410-0595. (Google Scholar, EBSCO, ISC, DOAJ, Ulrich's, CiteSeerX, and more...)
9. **Chng Chern Wei**, Sharifah Md. Yasin, Mohd. Taufik Abdullah, and Nur Izura Udzir. 2018. *New DNA Based Dynamical S-Box for Block Cipher*. Journal of Engineering Research and Application, vol. 8, no. 7, pp. 64-69. ISSN 2248-9622. DOI: 10.9790/9622-0807046469. (Google Scholar, DOAJ, EBSCO, Ulrich's, ProQuest, etc.)
10. **Chng Chern Wei**, Ijeoma Enwereuzo, Nima Mesalazar, Mohammad Affendeed Mohamed & Mohd. Taufik Abdullah. 2014. *A Review of Online Social Network: Personal Data Privacy*. International Conference of Engineering, Information Technology, and Science (ICEITS 2014), ISBN 978-967-10730-4-9, pp. 127-133 (Google Scholar, EBSCO, ISC, DOAJ, Ulrich's, CiteSeerX, and more...)
11. **Chng Chern Wei**. 2014. *DNA approach for password conversion generator*. 2014 International Symposium on Biometrics and Security Technologies (ISBAST). doi:10.1109/isbast.2014.7013114 (Google Scholar, EBSCO, ISC, DOAJ, Ulrich's, CiteSeerX, and more...)



## 8. OTHER ADDITIONAL ADMINISTRATIVE RESPONSIBILITIES

No.	POSITION (APPOINTMENT)	FACULTY / DIVISION / DEPARTMENT	START DATE – END DATE
1.	Head of Department – Computing	UOWM KDU Penang University College	2023 - 2024
2.	Dean of Faculty of Computer Science and Information Computing Technology (FICT)	New Era University College	2019 - 2023
3.	Head of Department – Computer Science & Information Technology (CSIT)	New Era University College	2018 - 2019
4.	Director of Computer Center	New Era University College	2020 - 2023

## 9. OTHER RELEVANT INFORMATION

### 1. Professionals Certification:

No.	Year	Certification
1.	Sep 2022	<b>Huawei Professional Certification HCIA – Security</b> Certification No.: 010100301495808851211409
2.	Aug 2022	<b>TP-Link Professional Certification TP-Link Certified Network Associate (TPNA SMB)</b> TP-Link ID.: TPKL000000718 TP-Link Verification No.: AC11754AA08A4BD7
3.	Oct 2022	<b>Huawei Professional Certification HCIA – Artificial Intelligent (AI)</b> Certification No.: 010102001495808455051269500
4.	Oct 2022	<b>Huawei Professional Certification Huawei Certified Academy Instructor</b> Certification No.: 021103601495808458371300225
5.	Feb 2021	<b>Certified Data Security Professional (CDSP)</b> CyberSecurity Malaysian
6.	Feb 2021	<b>Certified Penetration Tester (CPT)</b> CyberSecurity Malaysia
7.	Feb 2020	<b>Rocheston Certified Cybersecurity Engineer</b> Certification No.:2BFF4743EE9457B2522E1755DE8EcE54



8. Apr 2018 **HRD Corp Accredited Trainer  
(Train The Trainer – TTT)**  
Certification No.: TTT/20433

## 2. External Assessor

No.	Batch	Year	Certification	College/Skill Institute
1.	K05004-IT-010-3:2016-2022(MTB1)FT	2024	SKM L3	KOLEJ VOKASIONAL KULIM [K05004]
2.	K05102-IT-010-3:2016-2020(MTB3)FT	2021	SKM L3	KOLEJ VOKASIONAL GERIK [K05102]
3.	K05095-IT-010-4:2013-2019(ST2)FT	2021	SKM L3	KOLEJ VOKASIONAL KUALA SELANGOR [K05095]
4.	L01435-IT-060-3-2019(MT2)FT	2021	SKM L3	A TEC COLLEGE [L01435]
5.	K05095-IT-010-3:2016-2020(MTB1)FT	2021	SKM L3	KOLEJ VOKASIONAL KUALA SELANGOR [K05095]

## 3. Courses Taught (Since 2014): Undergraduate:

No.	Course
1.	Computer Network
2.	Data Communications
3.	System Design and Architecture
4.	Cyber Security
5.	Database Concept
6.	Analysis for IOT
7.	Computer Organization and Architecture
8.	Programming Concept
9.	Introduction to Cloud Computing
10.	Operating System Concept