

Curriculum Vitae

TS. DR. NAZLEEN SYAHIRA BT MOHD SUHAIMI

Academic Profile

An academican from Universiti Putra Malaysia (UPM) with a strong background in engineering and technology, focusing on innovative system development and applied research. With experience as a lecturer and post-doctoral researcher, she is dedicated to advancing knowledge through research and innovation. Teaching is her passion, and she strives to inspire students to explore and apply technology creatively.

Research Interest

Interest in the field of Embedded system, Wireless Communication System, Internet of Things (IoT) Integration.

Academic Qualification

- PhD in Microwave and Satellite Systems, Universiti Sains Malaysia, 2022
- Master of Philosophy in Electrical Engineering, Universiti Teknologi Malaysia, 2018
- Bachelor of Engineering (Honours) (Electronic Engineering), Universiti Sains Malaysia, 2016

Professional Memberships

- Board of Engineers Malaysia (BEM) – Member (No. 169945A)
- The Institution of Engineers Malaysia (IEM) – Member (No. 57791)
- Malaysia Board of Technologists (MBOT) – Professional Technologist (Ts.) (No. PT25050314)

Teaching Subjects (UPM)

Postgraduate (Master)

- SWE5402 3(3+0) 2024/2025 – 2: Real-Time Software Engineering
- SSE5402 3(3+0) 2024/2025 – 2: Real-Time Software Engineering

Undergraduate

- SWE3001 3(3+0) 2025/2026 – 1: Introduction to Software Engineering
- CSC4702 3(3+0) 2025/2026 – 1: Robotics System Development
- CSC3600 3(2+1) 2024/2025 – 2: Artificial Intelligence

Working Experiences

October 2025 - Present	Senior Lecturer Faculty of Computer Science and Information Technology, Universiti Putra Malaysia (UPM)
March 2025 – July 2025	Lecturer Universiti Putra Malaysia (UPM)
Aug 2023 – Aug 2024	Post-Doctoral Research Fellow Universiti Sains Malaysia (Campus Engineering) (USM)
Feb 2023 – July 2023	Senior Lecturer Management and Science University (MSU)
Sept 2018 – Aug 2020	Graduate Research Assistant Universiti Sains Malaysia (Campus Engineering) (USM)
Sep 2017 – Dec 2017	Occupational Trainee The University of Queensland, Queensland, Australia
May 2012 – July 2012	Research Assistant Universiti Sains Malaysia (Campus Engineering) (USM)

Projects (*last 3 years*)

1. Artificial Intelligence (AI) - Powered Storage Tracking System
2. A super-wideband (SWB) antenna for wireless communication network applications.
3. Design Implementation of 4 x 4 Butler Matrix with Bandwidth Enhancement and Size Reduction for Fifth Generation (5G) Wireless Communication System.

Attended Workshops/Trainings (*last 3 years*):

1. Putra Leaders Ignite: Lead with Purpose, Act with Impact (24th October 2025).
2. Bengkel Pengenalan PutraBLAST 4.5 dan HP5 (3rd October 2025).
3. Professional Recognition with Malaysia Board of Technologist (MBOT) Seminar (4 August 2025).
4. Presentation of AI used in Engineering (26th July 2025).
5. Workshop on using AI ChatGPT and Phantom Opera Challenge (26th July 2025).
6. Innovation, Design and Engineering Applications for A Sustainable Future (IDEAS), (9th July 2025).
7. CADFEM Ansys Simulation Software Workshop (19th June 2025).
8. STEM Carnival (Committee) & Innovation Game, (16TH – 19TH June 2025).
9. Project Management Fundamentals, International Business Machines Corporation (IBM), (29th May 2025).
10. Enhancing Research with AI-Powered Tools (29th May 2025).
11. Create Interactive Learning Activities using Genially, (29th May 2025).
12. Innovative teaching with Google Slides and Padlet Technique (28th May 2025).

13. OBE Training Module (19th – 20th March 2025).
14. FIP Part 3 Training, (12th March 2025).
15. FIP Part 2 Training (Day 1 & 2), (11th March 2025).
16. Introduction to Blended Learning & Canvas LMS [In-person] (10th March 2025).

Publications:

Publication	Quantity
Book	0
Chapter in Book	2
ISI indexed Journal	1
Scopus indexed Journal	6
Conference	2

Selected Publications:

ISI Indexed Journals

1. **Nazleen Syahira Mohd Suhaimi**, Nor Muzlifah Mahyuddin, Imran Mohd Ibrahim. A super-wideband (SWB) antenna for wireless communication network applications, 2025. (*In Progress*).
2. **Nazleen Syahira Mohd Suhaimi**, Nor Muzlifah Mahyuddin, Widad Ismail, Imran Mohd Ibrahim. Miniaturized 4 × 4 Switched-beam Butler Matrix with Bandwidth Enhancement for 5G Communication System, in Alexandria Engineering Journal, vol. 61, no. 12, pp.13089-13103, 2022. (**ISI Q1 Journal**)

Scopus Indexed Journals

1. **Nazleen Syahira Mohd Suhaimi**, Anthony N. Uwaechia, Nor M. Mahyuddin. Bandwidth Enhancement and Size Reduction of 3 dB Patch Coupler with 45° Output Phase Difference for 5G Beamforming Network, Jordanian Journal Computers and Information Technology, vol. 8, no. 2, pp. 170-181, 2022.
2. Anthony Ngozichukwuka Uwaechia, **Nazleen Syahira Mohd Suhaimi**, Nor Muzlifah Mahyuddin. Beamspace Channel Estimation in Wideband Lens Antenna Array-Based mmWave mMIMO-OFDM Systems Under Beam Squint”, in Physical Communication, vol. 50, no. 101512, 2021.
3. Anthony Ngozichukwuka Uwaechia, **Nazleen Syahira Mohd Suhaimi**, Nor Muzlifah Mahyuddin. Beamspace Channel Estimation in Wideband Lens Antenna Array-Based mmWave mMIMO-OFDM Systems Under Beam Squint”, in Physical Communication, vol. 50, no. 101512, 2021.
4. **Nazleen Syahira Mohd Suhaimi**, Nor Muzlifah Mahyuddin. Review of Switched Beamforming Networks for Scannable Antenna Application towards Fifth Generation (5G) Technology, The International Journal of Integrated Engineering, vol. 12, no. 6 pp. 62-70, 2020.

5. Norhuda Seman, **Nazleen Syahira Mohd Suhaimi**, Tian Han Chua. 26 GHz Phase Shifters for Multi-Beam Nolen Matrix towards Fifth Generation (5G) Technology, Bulletin of Electrical Engineering and Informatics, vol. 8, no. 3 pp. 1028 – 1035, 2019.
6. Nor Azimah Mohd Shukor, Norhuda Seman, **Nazleen Syahira Mohd Suhaimi**. Butler Matrix Beam-Forming Network with Steerable Beam Capability for Application in 5g Wireless Communication, in Proceedings of 7th International Graduate Conference on Engineering, Science and Humanities (IGCESH 2018), no. 28, pp. 139-141, 2018.

Chapters in Book

1. **Nazleen Syahira Mohd Suhaimi**, Nor Muzlifah Mahyuddin. A Wideband 3 dB T-Shaped Stubs-Loaded Coupler for Millimeter-Wave (mm-Wave) Beamforming Network Towards Fifth Generation (5G) Technology in Proceedings of the 12th International Conference on Robotics, Vision, Signal Processing and Power Applications, 2024.
2. **Nazleen Syahira Mohd Suhaimi**, Nor Muzlifah Mahyuddin. Bandwidth Enhancement of Branch-line Crossover using Etching Slot Technique for Butler Matrix, in Lecture Notes in Electrical Engineering, LNEE, vol. 829, pp. 131-137, 2022.

Conferences/Symposiums

1. **Nazleen Syahira Mohd Suhaimi**, Nor Muzlifah Mahyuddin. Modified 0 dB Crossover for Butler Matrix towards 5G Technology, in Electrical and Electronic Postgraduate Colloquium, EEPC, 21 - 22 December 2021.
2. **Nazleen Syahira Mohd Suhaimi**, Norhuda Seman. Beamforming Networks for Multi-Beam Antenna Applications Towards Fifth Generation (5G) Technology, in 6th Conference on Emerging Energy and Process Technology (CONCEPT 2017), 2017.

Referees

Prof. Madya Dr. Nor Muzlifah Mahyuddin
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