



CURRICULUM VITAE



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AREA OF INTEREST

Fire Safety Engineering, Probabilistic Analysis, Zone and CFD Simulations, Performance-Based Design

EDUCATION

- PhD in Chemical Engineering, 2025, Universiti Putra Malaysia
Thesis: Evaluation Of Probabilistic Design Fire Tool for Residential Fire Simulations
- B.Eng. (Hons) Chemical Engineering, 2021, Universiti Putra Malaysia

PROFESSIONAL QUALIFICATION / MEMBERSHIP / AFFILIATION

1. Graduate Engineer, Board of Engineers Malaysia (BEM)
2. Ordinary Member, Malaysian Society for Engineering & Technology (MySET)

APPOINTMENTS

Position	Duration
1. Senior Lecturer, Department of Chemical & Environmental Engineering, Faculty of Engineering, UPM	March 2026 – Current
2. Tenaga Akademik Muda, Department of Chemical & Environmental Engineering, Faculty of Engineering, UPM	April 2024 – February 2026
3. Special Graduate Research Assistant, Department of Chemical & Environmental Engineering, Faculty of Engineering, UPM	October 2021 – March 2024

PUBLICATIONS

Journals

1. **Zulmajdi, I. U.**, Mohd Tohir, M. Z., Choong, T. S. Y., Harun, M. Y., & Md Said, M. S. (2023). Statistical Distribution of Heat Release Rate Data for Single Household Items. *Fire Technology*, 60, pp. 101–134. <https://doi.org/10.1007/s10694-023-01493-6>

2. **Zulmajdi, I. U.**, Mohd Tohir, M. Z., Choong, T. S. Y., Harun, M. Y., & Md Said, M. S. (2023). Distribution of Probabilistic Design Fires for Single Residential Items. *Fire Safety Journal*, 140. <https://doi.org/10.1016/j.firesaf.2023.103908>
3. **Zulmajdi, I. U.**, Mohd Tohir, M. Z., & Syafie, S. (2022). Probabilistic Fire Simulation Assessment Using Simplified Model and Zone Modelling of a Kitchen Fire Scenario. *Fire Technology*, 58, pp. 3007–3037. <https://doi.org/10.1007/s10694-022-01289-0>

Academic Talks

1. “Distribution of Probabilistic Design Fires for Single Residential Items” – Presented at 14th IAFSS Symposium 2023 on Fire Safety Science, Tsukuba, Japan
2. “Statistical Distribution of Heat Release Rate Data for Single Household Items” – Presented at SFPE Performance-Based Design Conference 2022
3. “Probabilistic Fire Simulation Assessment Using Simplified Model and Zone Modelling of a Kitchen Fire Scenario” – Presented at RCChe & ICICET 2021 Conference

TEACHING EXPERIENCE

1. Computer Programming (ENG3201) – 2025/2026

PROFESSIONAL SERVICES

Journal Manuscript Reviewer For:

1. Journal of Energy and Safety Technology

Committee Member For:

1. 3rd International Conference on Innovation in Chemical Engineering & Technology (ICICET2026)
2. Persatuan Saintis Muslim Malaysia (PERINTIS) e-Journal 2025–2026

HONOURS AND AWARDS

1. SFPE Foundation Student Scholar Award 2022
2. MySET-Iktisas Student Excellence Award 2022
3. Gold Medalist for Undergraduate Final Year Project 2021
4. Invited to Students’ Seminar 2021 on Fire Safety Science, Forschungszentrum Jülich, Berlin, Germany
5. Invited Speaker for PERINTIS Innocreate School Holiday Talk 2021

RESEARCH GRANTS

Project Title	Role	Year	Source Fund	Amount
A Comparison of Zone and Field Model for the Probabilistic Simulation of NIST Kitchen Fire	Project Leader	2021-2023	Society of Fire Protection Engineers (SFPE) Foundation	20,000

STUDENTS SUPERVISION

Final Year Undergraduate Projects

2025/2026	Simulation of Electric Vehicle Fire in Underground Car Park using Fire Dynamic Simulator (FDS)	Nurul Ayuni binti Ahmad Ismady
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REFEREES

- **Prof. Madya Dr. Norhafizah binti Hj. Abdullah**
Head of Department,
Department of Chemical & Environmental Engineering,
Faculty of Engineering,
Universiti Putra Malaysia

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