

CURRICULUM VITAE



A. Biodata

Full Name	Noor Zafira Noor Hasnan
Department	Department of Process and Food Engineering
Faculty	Faculty of Engineering
Organization	Universiti Putra Malaysia
Current position	Senior Lecturer
Date of present appointment	1 February 2018
Field of specialization	Food Factory Design, Food Processing, Operational Planning & Simulation Analysis, Food Safety
Staff No.	A04760
Corresponding address	Department of Process and Food Engineering, Faculty of Engineering, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Darul Ehsan, Malaysia
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B. Education and Academic Qualifications

Degree	Institution/ School	Year	Area of specialization
Ph. D	Universiti Putra Malaysia, Malaysia	2017	Food Engineering
M. Sc	Albstadt-Sigmaringen University, Germany	2012	Facilities Design and Management in Life Science (Food and Pharmaceutical)
B.Sc	Albstadt-Sigmaringen University, Germany	2010	Food Technology, Hygiene and Nutrition
A- Level Engineering	International Education Centre, MARA Institute of Technology, Malaysia	2006	Engineering
Certificate of Pre Study Engineering Practical	German-Malaysian Institute, Malaysia	2006	Engineering

C. Areas of Interest

1. Food factory design and processing
2. Operational planning and simulation analysis
3. Food hygiene and safety (HACCP, GMP)
4. Antioxidants

C. Administrative Duties And Other Relevant Appointment

No.	Position	Department/Faculty/ Institution	Year	Duration
1.	Industrial Training Coordinator	Department of Process and Food Engineering, Faculty of Engineering, UPM	Jan 2019 – December 2021	2 years
2.	Head of Transportation Laboratory	Department of Process and Food Engineering, Faculty of Engineering, UPM	February 2018 - January 2020	3 years
3.	Young Academic Fellow	Department of Process and Food Engineering, Faculty of Engineering, UPM	April 2013 - December 2017	4 years and 9 months

D. Awards and Recognition

No.	Title	Organization	Award	Year
1.	Certificate of Award PiCTL2021	Centre for Academic Development (CADe), UPM	Silver (University)	2021
2.	Best Final Year Project 2021 (Faculty Panels)	Universiti Putra Malaysia	Excellence Award	2021
3.	Certificate of Appreciation	Universiti Putra Malaysia	Excellent Service Award	2020
4.	Certificate of Poster Award ARC2020	The 6 th Southeast Asian Agricultural Engineering Annual Regional Convention (ARC2020)	Gold & Silver (International)	2020
5.	Certificate of Paper Award ARC2020	The 6 th Southeast Asian Agricultural Engineering Annual Regional Convention (ARC2020)	Bronze (International)	2020
6.	Certificate of Award PiCTL2020	Centre for Academic Development (CADe), UPM	Gold (University)	2020
7.	Best Final Year Project 2020 (Industry Panels)	Faculty of Engineering	Silver (University)	2020
8.	Certificate of Appreciation	Universiti Putra Malaysia	Excellent Service Award	2019
9.	Best Final Year Project 2019 (Industry Panels)	Faculty of Engineering	Gold (University)	2019



10.	Best Final Year Project 2019 (Industry Panels)	Faculty of Engineering	Bronze (University)	2019
11.	Appreciation Certificate	Universiti Putra Malaysia (UPM)	Teaching Excellence Award (University)	2019
12.	Certificate of Award PRINKAB2019	Pertandingan Rekaipta Invasi Nasional Kejuruteraan adan Alam Bina - Universiti Kebangsaan Malaysia (UKM)	Gold (National)	2019
13.	Hygienic Design Study Award	European Hygienic Engineering Design Group (EHEDG)	Runner-up (International)	2018
14.	Certificate of Award	International STEM Olympiad and Universiti Putra Malaysia (UPM)	Gold (International)	2018
15.	Certificate of Excellence	International STEM Olympiad and Universiti Putra Malaysia (UPM)	Cluster Award in Environment and Energy (International)	2018
16.	20 Outstanding Foreign Students for Conference with Chancellor of Germany, Angela Merkel at Germany Parliament	Germany Academic Exchange Service (DAAD)	Excellence Award (International)	2010
17.	Outstanding Foreign Student Award	Germany Academic Exchange Service (DAAD)	Excellence Award (International)	2009
18.	Malaysian Embassy Award for academic and extra-curricular achievements	Malaysian Embassy in Berlin	Excellence Award (International)	2008
19.	Scholarship for Postgraduate Study (PhD degree)	Ministry of Higher Education	Scholarship (National)	2012-2016
20.	Scholarship for Postgraduate Study (Master degree)	Public Service Department, Malaysia	Scholarship (National)	2010-2012
21.	Scholarship for Undergraduate Study (Master degree)	Public Service Department, Malaysia	Scholarship (National)	2007-2010
22.	Scholarship for A-Level	Public Service Department, Malaysia	Scholarship (National)	2004-2006

E. Academic Duties/ Committee Member

No.	Title	Level	Year
1.	Secretary for International Conference of Agriculture and Food Engineering 2023	International	2022
2.	Secretariat for GMP and HACCP Training 2021	International	2022
3.	Publication Secretariat of International Symposium Asia Packaging Network 2021	International	2021
4.	Development Committee of Bachelor Program, Department of Process and Food Engineering	Department	2021
5.	Secretariat for GMP and HACCP Training 2021	International	2021
6.	Publication Secretariat of 5th International Conference on Agricultural and Food Engineering 2020	International	2020
7.	Secretariat for Malaysian Society of Agricultural Engineers Conference 2020	National	2020
8.	Secretariat for GMP and HACCP Training 2020	National	2020
9.	Treasurer for Malaysian Society of Agricultural Engineers Convention 2019	National	2018-2019
10.	Secretariat for HAC01 Training 2019: Hazard Analysis and Critical Control Points Awareness and Understanding	National	2019
11.	Secretariat for GMP01 Training 2019: Understanding and Implementation	National	2019
12.	Development Committee of Master Program Without Thesis, Department of Process and Food Engineering	Department	2019
13.	Publication Secretariat of 4th International Conference on Agricultural and Food Engineering 2018	International	2018
14.	Secretary for GMP02 Training: Good Manufacturing Practice Compliance Plan Layout	National	2018
15.	Secretary for HAC01 Training 2018: Hazard Analysis and Critical Control Points Awareness and Understanding	National	2018
16.	Secretariat for GMP01 Training 2018: Understanding and Implementation	National	2018
17.	Conference Committee of 2nd International Conference on Agricultural and Food Engineering 2012	International	2012

F. Supervision of Students

Program Level	Name of Student	Supervisor/ Co-Supervisor/ Demonstrator	Status (On-going/Graduated)	Year Graduated
PhD	Azan Azuwan Baharudin	Co-Supervisor	On-Going	
Master	Nurul Shaqirah Binti Sulaiman	Co-Supervisor	On-Going	
Master	Mao Dun	Co-Supervisor	On-Going	
Master	Kuan Shu Ping	Co-Supervisor	On-Going	
Master	Keng Guan Chen	Co-Supervisor	On-Going	
Bachelor	Lee Wai See	Supervisor	On-Going	
Bachelor	Wong Hoong Ling	Supervisor	On-Going	
Bachelor	Anis Fadhillah	Supervisor	Graduated	2021
Bachelor	Oh Jia Qian	Supervisor	Graduated	2021
Bachelor	Kong Tse Yee	Supervisor	Graduated	2020
Bachelor	Heng Hui Shan	Supervisor	Graduated	2020
Bachelor	Nurulnadiyah Binti Johari	Supervisor	Graduated	2019
Bachelor	Nur Syahida Laila Binti Azmy	Supervisor	Graduated	2019
Bachelor	Nur Asilah Binti Nasiruddin	Demonstrator	Graduated	2017
Bachelor	Ain Atiqah Binti Mohd Sabri	Demonstrator	Graduated	2016
Bachelor	Siti Nor'Ain Binti Kamalruddin	Demonstrator	Graduated	2015

G. Publications

Journals

1. **Noor Zafira Noor Hasnan***, Roseliza Kadir Basha, Nor Amaiza Mohd Amin, Sharifah Hafiza Mohd Ramli, John Yew Huat Tang, Norashikin Ab Aziz (2022). Analysis Of The Most Frequent Nonconformance Aspects Related To Good Manufacturing Practices (GMP) Among Small And Medium Enterprises (SMES) In The Food Industry And Their Main Factors. Food Control. (Q1)
2. Heng Hui Shan, **Noor Zafira Noor Hasnan***, Yuzainee Md. Yusoff, Norashikin Abdul Aziz, Mohd Salahuddin Mohd Basri (2021). Operational and Hygiene Problems Due to Poor Floor Drain Design and Installation in a Meat Processing. Journal of Hygienic and Engineering Design. (Scopus Indexed)
3. Nur Diyana Alyas, Nurin Izzati Mohd Zulkifli, Fadzilah Puteh, **Noor Zafira Noor Hasnan*** (2021). Evaluation of Total Phenolic Content and Antioxidant Activities from Different Extraction Techniques of *Helianthus tuberosus*. Advances In Agricultural And Food Research Journal (AAFRJ).
4. Roseliza Kadir Basha, Siti Hajar Othman, Rosnita A.Talib, Mohd Nazli Naim, **Noor Zafira Noor Hasnan**, Nazatul Shima Azmi (2021). Sorption characteristic of starch-based film. Food Research. (Scopus Indexed).
5. Siti Hajar Othman, Bilguisse Mamadou Wane, Norhazirah Nordin, **Noor Zafira Noor Hasnan**, Rosnita A. Talib and Joko Nugroho Wahyu Karyadi (2021). Physical, Mechanical, and Water Vapor Barrier Properties of Starch/Cellulose Nanofiber/Thymol Bionanocomposite Films. Polymers.(Q1).
6. Roseliza Kadir Basha, Rashidah Sukor, Zanariah Mohd Dom, Nor Amaiza Mohd Amin, **Noor Zafira Noor Hasnan**, Siti Hajar Othman (2020). Mechanical Properties and Antioxidant Activity of Sweet Potato Starch Film Incorporated with Lemongrass Oil. Advances in Agricultural and Food Research Journal.
7. **Noor Zafira Noor Hasnan***, Nur Diyana Alyas, Nurin Izzatt Mohd Zulkifli, Roseliza Kadir Basha, Norashikin Ab. Aziz (2020). Effect of different pasteurisation temperature on physicochemical

properties, bioactive compounds, antioxidant activity and microbiological qualities of reconstituted pomegranate juice (RPJ). Food Research. (Scopus Indexed).

8. **Noor Zafira Noor Hasnan***, Sharifah Hafiza Mohd Ramli (2020). Modernizing the Preparation of the Malaysian Traditional Mixed Rice Dishes with Cook-Chill Central Kitchen and Implementation of HACCP. International Journal of Gastronomy and Food Science. (Scopus-indexed).
9. Yuzainee Md. Yusoff, **Noor Zafira Noor Hasnan***, Nurulnadiyah Johari (2019). Cooling Load Calculation for Efficient Cold Storage of Fresh-cut Yam Bean. International Journal of Recent Technology and Engineering. (Scopus Indexed).
10. Nurul Izzah Khalid, U.S.Saulaiman, Nur Asilah Nasiruddin, Norashikin Ab. Aziz, Nor Khaizura Mahmud @ Ab Rashid, **Noor Zafira Noor Hasnan**, Farah Saleena Taip. Integrating cleaning studies with industrial practice: Case study of an effective cleaning program for a frozen meat patties SME factory. Journal of Cleaner Production (Q1)
11. **Noor Zafira Noor Hasnan***, Norashikin Ab. Aziz, Norzima Zulkifli, Farah Saleena Taip (2018). Spine layout design for improving food hygiene and reducing travelled distances in a small-scale burger patties processing. Food Research. (Scopus-indexed)
12. **Noor Zafira Noor Hasnan***, Norashikin Ab. Aziz, Norzima Zulkifli, Farah Saleena Taip (2014). Food factory design: Reality and challenges faced by Malaysian SMEs. Agriculture and Agricultural Science Procedia, 2, 328-336.

Conference Proceedings

1. **Noor Zafira Noor Hasnan**, Sharifah Hafiza Mohd Ramli, Norashikin Ab. Aziz, Norzima Zulkifli, Farah Saleena Taip (2019). Hygienic Design of Food Processing Facilities. Abstract Book of the International Conference of Food Safety and Health, Taichung, Taiwan, November 26th-28th, 2019.
2. **Noor Zafira Noor Hasnan**, Yuzainee Md. Yusoff (2018). Short Review: Application areas of industry 4.0 technologies in the food processing sector. In Research and Development, 2018. SCORED 2018. IEEE Explorer. (Scopus-indexed)
3. **Noor Zafira Noor Hasnan**, Siti Nurain Kamalruddin, Norashikin Ab. Aziz, Norzima Zulkifli, Farah Saleena Taip and Kamarudzaman Mohd. Ishak. Food Processing Machine Selection Guideline Module for Juara Rasa Maju Sdn. Bhd. *Proceeding of the 3rd National Conference on Knowledge Transfer*, Penang, Malaysia, November 30th to December 1st, 2016.
4. Mohd Zainal Ismail, Sharifah Hafiza Mohd. Ramli, **Noor Zafira Noor Hasnan**. Cook Chill Concept and Food Production Facilities at the Nutrima Kitchen MARDI. *Proceedings of the 13th Malaysian International Food and Beverage Trade Fair*, Kuala Lumpur, Malaysia, July 12th -14th, 2012.

Book Chapter

1. Mohd Zuhair Mohd Noor, Intan Syafinaz Mohd Amin Tawakkal, **Noor Zafira Noor Hasnan**, Mohd Salahuddin. Lab Work Video (LWV): A Tool For Course Assessment And Teaching Aid In Undergraduate Program, Non Citation-Indexed, New Edition, Hardcopy, Centre of Engineering and Built Environment Education Research, Universiti Kebangsaan Malaysia (UKM), 9789832982609, [30-32], 2019

H. Grants and Funding

No.	Project Title	Amount (RM)	Year	Source of Fund
1.	Training Grant for Train the Trainer Competency	2500	September 2021	Universiti Putra Malaysia
2.	Studies on the New Formulation and Processing Technique Of The Reconstituted Pomegranate Juices To Preserve Antioxidant And Optimize Sensory Values	35000	July 2019	Universiti Putra Malaysia
3.	Design of pomegranate juice, snack food and traceability system development (FYP)	1500	July 2019	Universiti Putra Malaysia

4.	Travel grant Food Safety and Health Conference, Industry Visit and Tea Plantation in Taiwan	13524	November 2019	National Society of Taiwan and Chung Shan Medical University
5.	Training Grant for Research Coaching:Winning International Grant	2000	August 2019	Akademi Kepimpinan Pendidikan Tinggi
6.	Smart Collection of Waste Cooking Oil	500	December 2018	Faculty of Engineering, Universiti Putra Malaysia
7.	Special Project on Sustainable Food Production and Food Security in Developing Countries	14000	Mac 2018	Germany Academic Exchange Service (DAAD)
8.	Travel Grant for research exhibition on hygienic design and processing	12565	December 2018	European Hygienic Engineering Design (EHEDG)
9.	Introducing sustainable, efficient and hygiene production system method for frozen food factory (Graduate Intern)	165000	Oct 2015 – Mar 2018	Ministry of Higher Education Malaysia
4.	Sustainability Considerations in Manufacturing System Design for Small and Medium Enterprise (SME) Food Factory in Malaysia (Postgraduate Students)	15000	Jan 2014 – Dec 2015	Universiti Putra Malaysia

G. Consultation Activities and Industry Collaboration

No.	Project Title	Role	Company	Year	Status
1.	Production planning and factory design for protein powder extracted from <i>Monopterus albus</i>	Member	Pelasari Aquamarine Sdn Bhd	2020 to date	On going
2.	Automation on quality control in coffee production	Member	Blend Coffee Roaster Sdn Bhd	2020 to date	On-going
3.	Development of traceability system for online processed meat e-retail	Main	Reichtum Food Niaga	2020 to date	On going
4.	Hygienic design of drainage system	Main	Mestre Engineering Sdn Bhd	2019 to date	On going
5.	Seminar and Demonstration for Smart Maintenance in Food Industry	Main	Quantrasoft Technology Sdn Bhd and Nalvatik Management	2019	Completed

6.	Roundtable session with Sinobun Confectionary Sdn Bhd on bakery processing, layout design and food safety management system	Main	Sinobun Confectionary Sdn Bhd	2019	Completed
7.	Design of a small-scale factory for pomegranate juice production with high antioxidant properties	Main	Sengkuang Lagenda Enterprise	2018 to date	Completed
8.	Design of a small-scale factory for yam bean snack production	Main	Sengkuang Lagenda Enterprise	2018	Completed
9.	Development of Hazard Analysis Critical Control Point (HACCP) system for the production of yam bean snack and pomegranate juice	Main	Sengkuang Lagenda Enterprise	2018	Completed
10.	Development of Hazard Analysis Critical Control Point (HACCP) system for the production of burger patties	Main	Juara Rasa Maju Sdn Bhd	2018	Completed
11.	Development of Hazard Analysis Critical Control Point (HACCP) system for the production of burger patties	Main	Juara Rasa Maju Sdn Bhd	2018	Completed
12.	Facility set-up of quality control laboratory for the production of rice vermicelli	Main	Dibuk Synergy Sdn Bhd	2017	Completed
13.	Introducing sustainable, efficient and hygienic production system method for frozen food factory	Member	Juara Rasa Maju Sdn Bhd	2016-2018	Completed
14.	Facility Planning to Set up a Commercial Central Kitchen with Cook-Chill System	Research Assistant	Malaysian Agricultural Research and Development Institute (MARDI),	2011-2012	Completed
15.	Novel Method for the Production of Iodised Salt using Cyclodextrin	Research Assistant	Südsalz GmbH, Heilbronn (Germany)	2010	Completed
16.	Testing of School Fruit Program in Baden Wurttemberg, Germany	Student	Ministry of Rural Affair and Consumer Protection in Baden Wuerttemberg (Germany)	2009-2010	Completed
17.	Development of Customer Complaint System	Student	Vinzenz Service GmbH in Sigmaringen (Germany)	2009-2010	Completed
18.	Industrial Internship	Student	Neff GmbH (Germany)	2009	Completed

G. Involvement in Professional Organizations

No.	Role	Organization	Year
1.	Committee Member	Working Group Food Law and Regulation for Global Harmonization Initiatives (GHI)	2020 to date
2.	Graduate Technologist	Malaysian Board of Technologist	2019 to date
3.	Alumni Member	Germany Academic Exchange Service (DAAD)	2018 to date
4.	Professional Member	Germany Agriculture Society	2018 to 2019
5.	Member	Society of Engineering Education Malaysia (SEEM)	2017 to date
6.	Malaysian Ambassador	Global Harmonization Initiatives (GHI)	2018 to date



H. Professional Services

No.	Role	Title	Year
Editorial Board			
1.	Guest Editor	Special Issue: Digital Innovations in Agriculture for ASEAN Journal of Engineering and Technology (MyJurnal)	2022
2.	Editorial Board	Ukrainian Food Journal (Scopus)	2022
3.	Chief Editor	Program Book of International Symposium Asia Packaging Network (APN) 2021	2021
4.	Chief Editor	eProceedings of International Symposium Asia Packaging Network (APN) 2021	2021
5.	Editor	eProceedings of 4th International Conference on Agricultural and Food Engineering	2018
6.	Editor	Program Book of 4th International Conference on Agricultural and Food Engineering	2018
Chair/Panelist/Speaker/Jury			
1.	Speaker	Training of Hazard Analysis & Control Measures in Food Processes	2020 -2022
2.	Speaker	Training on Good Manufacturing Practices (GMP): Layout & Design Aspects for Food Processing	2019 -2021
3.	Chairperson Assistant	Viva PhD Thesis: Development of Electrolyzed Water Cleaning Program For SME Frozen Meat Industry	2021
4.	Chairperson Assistant	Viva PhD Thesis: Processing Of Coconut Sap Into Syrup and Granular Sugar Using Different Evaporation Techniques For Economical Production	2019
5.	Chairperson Assistant	Viva Master Thesis: Effect of Processing Parameters in Producing Pumpkin Powder from Different Parts of Pumpkin and its Application in "BINGKKA" Baking	2019
6.	Speaker	Lab Demonstration for Student Program Between International Islamic University Malaysia and UPM	2018
3.	Jury	4 th International Conference on Agricultural and Food Engineering 2018	2018
Journal/Conference Reviewer			
1.	Journal Review	Advances in Agricultural and Food Research Journal (AAFRJ)	2022
2.	Journal Review	Advances in Agricultural and Food Research Journal (AAFRJ)	2021
3.	Conference Review	5th International Conference on Global Sustainability and Chemical Engineering	2021
4.	Journal Review	Sains Malaysiana	2020
5.	Journal Review	Journal of Tropical Agriculture and Food Science	2020
6.	Journal Reviewer	Malaysian Journal of Medicine & Health Science	2019
7.	Journal Reviewer	Journal of Agricultural Science and Technology A & B	2019
8.	Journal Reviewer	Pertanika Journal (Special Issue)	2018

9.	Conference Reviewer	4th International Conference on Agricultural and Food Engineering 2018	2018
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I. Involvement in Student Development

No.	Name of Program/Organizer	Role	Year
1.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Subject Matter Expert for Layout Design & Scheduling	2021
2.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Supervisor	2021
3.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Subject Matter Expert for Layout Design & Scheduling	2020
4.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Supervisor	2019
5.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Supervisor	2018
6.	Industrial Training, Department of Process and Food Engineering, Faculty of Engineering, UPM	Visiting Lecturer	2018-2021
7.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Subject Matter Expert for Hazard Analysis and Critical Control Points	2018
8.	Bachelor of Process and Food Engineering	Academic Advisor	2018
9.	Global I-LEAD STEM Camp	Facilitator	2018