

## CURRICULUM VITAE



### NURUL IZZAH ABD RAHMAN, PhD

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### Education

1. Ph.D. Engineering Design, 2020, University of Malaya.
2. Master of Engineering Science, 2013, University of Malaya.
3. B.Eng. (Manufacturing), 2010, University of Malaya.

### Areas of Interest

1. Cognitive Ergonomics
2. Work design
3. Transportation Ergonomics
4. Industrial Engineering

### Professional Qualification/Membership/Affiliation

1. Graduate Engineer, Board of Engineers Malaysia (BEM) (No.:73364A).
2. Member, Human Factors and Ergonomics Society Malaysia (HFEM) (No.: 0328)
3. Ergonomic Trained Person, Department of Occupational Safety and Health, Malaysia (No.1052).
4. Competent Trainer (TTT), National Institute of Occupational Safety Health (NIOSH) Malaysia (No.: TTT126132-20)

### Appointments

#### Position

#### Duration

#### Universiti Putra Malaysia

1. Senior lecturer

2021 to date

#### ErgoWorks Sdn Bhd

1. Operation Manager / Ergonomist

2020 – 2021

#### Universiti Malaya

1. Research associate
2. Tutor
3. Research assistant

2012 - 2020

2011 - 2012

2010 - 2011

### Administrative Works

Position	Date Appointed
1. Seminar Coordinator, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, Universiti Putra Malaysia	August 2021 - Dec 2023
2. Task Force Open Educational Resources (PutraOER) Universiti Putra Malaysia	July 2022 - Jun 2024
3. Operation Manager, ErgoWorks Sdn Bhd	March 2020 – July 2021
4. Head of Industrial Ergonomic Lab (Postgraduates), Department of Mechanical Engineering, University of Malaya.	Dec 2015 – January 2021
5. Vice Treasurer / Secretariat - Exhibition on OKU & Elderly - ORKID WEC 2017, University of Malaya.	March 2017 – October 2017
6. Vice Treasurer / Secretariat - 3rd International Conference on Ergonomics 2015	March 2014 – August 2015
7. Program Manager 2nd International Conference on Ergonomics 2013	July 2011 – July 2013
8. Member of the EAC Committee (Tutor), Department of Engineering Design and Manufacture, University of Malaya.	March 2011 to September 2012
9. Coordinator / Tutor for Industrial Ergonomic Lab, Department of Engineering Design and Manufacture, University of Malaya.	March 2011 to September 2012
10. Secretariat Assistant, 2010 IEEE EMBS Conference on Biomedical Engineering & Sciences (IECBES 2010)	November 2010 to December 2010

### Publications

Journals
1. Dele-Afolabi, T.T.; Azmah Hanim, M.A.; Jung, D.W.; Ilyas, R.A.; Calin, R.; <b>Nurul Izzah, A.R.</b> Rice Husk as a Pore-Forming Agent: Impact of Particle Size on the Porosity and Diametral Tensile Strength of Porous Alumina Ceramics. <i>Coatings</i> 2022, 12, 1259.
2. <b>Rahman, N.I.A.</b> , Dawal, S.Z.M. and Yusoff N. (2021). Ageing drivers' mental workload in real-time driving task based on subjective and objective measures. <i>Journal of Engineering Research</i> , Vol. 9 No. (3B) September 2021 pp. 272-284.
3. <b>Rahman, N.I.A.</b> , Dawal, S.Z.M. and Yusoff N. (2020). Driving Mental Workload and Performance of Ageing Drivers. <i>Transportation Research Part F</i> , 69, Pp 265-285.
4. <b>Rahman, N.I.A.</b> , Dawal, S.Z.M., Yusoff N., Kamil N. S. M. (2018). Anthropometric measurements among four Asian countries in designing sitting and standing workstation. <i>Sadhana</i> , 43(10).
5. Dawal, S.Z.M., Mahadi, W.N.L., Mubin, M., Daruis, D.D.I., Mohamaddan, S., Razak, F.A.A., <b>Rahman, N.I.A.</b> , Wahab, M.H.M.A., Adnan, N., Anuar, S.A., Hamsan, R. (2016). Wudu' Workstation Design for Elderly and Disabled People in Malaysia's Mosques. <i>Iran J Public Health</i> , 45 (1), Pp.114-124.
6. <b>Rahman, N.I.A.</b> , and Dawal, S.Z.M. (2016). The Mental Workload and Alertness Levels of Train Drivers Under Simulated Conditions Based on Electroencephalogram Signals. <i>Malaysian Journal of Public Health Medicine</i> . 16 (1).

### Conference Proceedings

1. <b>Nurul Izzah Abd Rahman</b> , Siti Zawiah Md Dawal, and Nukman Yusoff. (2021). Influencing Factors of driver's habits and behavior: Comparison between young and aging populations. <i>Proceedings of the Korean Society of Ergonomics Conference</i> , 157-161.
2. <b>Rahman, N.I.A.</b> , Dawal, S.Z.M. and Yusoff N. (2017). Subjective responses of mental workload during real time driving: A pilot field study. <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 210 012076.
3. Aman, A., Dawal, SZM and <b>Rahman, N.I.A.</b> (2017) Design and analysis of wudu' (ablution) workstation for elderly in Malaysia. <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 210 012069.
4. <b>Rahman, N. I. A.</b> , Dawal, S. Z. M., & Bahreininejad, A. (2013). The Effects of Driving Environment on the Mental Workload of Train Drivers. <i>Advanced Engineering Forum</i> , 10, Pp 93- 99.

## Chapter in Books

1. Dawal, S. Z. M., **Rahman, N. I. A.**, Kamil, N. S. M., Shalahim, N. S. M., & Ismail, Z. (2016). The Relationship between Hand Grip Strength and Hand Anthropometric Dimensions of the Older Population. In A. Sulaiman (Ed.), Moving Towards an Equitable Society. Kuala Lumpur: Equitable Society Research Cluster (ESRC).

Research Grants/Consultations				
No.	Title	Position	Year	Source of Fund
1.	Investigation on Cognitive Ergonomic-driven Technologies Impact Over Work Performance Level of Malaysia Ageing Workforce in Office Setting	Leader	2022-2024	FRGS-KPT
2.	Cognitive Ergonomics Application in Manufacturing Sectors For Potential Work Performance Predictive Model Design.	Leader	2022-2024	IPM-UPM
3.	Research on Mental Workload and Mental Fatigue in Service Sectors in Malaysia	Member	2019-2021	NIOSH Malaysia
4.	The Relationship between Ageing Drivers Mental Workload and Driving Performance on Driving Task Related Factors	Member	2016-2019	Postgraduate Research Grant -UM
5.	Design & Application of Ablution Workstation for Elderly & Disabled Person	Research Associate	2017-2019	UMRG
6.	Integrated Production Planning and Decision Analysis Systems for SMEs	Research Associate	2012-2016	HIR-KPT
7.	Engineering Profession in Board of Engineers Malaysia	Research Associate	2014-2016	BEM
8.	Feasibility Study on The Establishment of the National Product Safety Testing Laboratory	Research Associate	2012-2014	Jabatan Standard Malaysia
9.	Ergonomics Approach on Cockpit and Cabin Design,	Research Associate	2009-2011	UMRG

Awards and Recognitions					
No.	Name of award	Title	Award Authority	Award type	Year
1.	Invention, Innovation & Design Award	Invention, Innovation & Design Exposition 2016 (IIDEX 2016)	IIDEX 2016, UiTM	Gold Award	2016

## Supervision of Students

### Bachelor

No.	Name	Title	Status
1.	Kasturi Amani Norhidzam (200624)	Cognitive load and work performance level of tasks in the manufacturing process of seating products.	Ongoing (2022/2023)
2.	Shudharson A/L Ilengo (202460)	Cognitive ergonomic-driven technologies interventions impact on cognitive load and work performance level	Ongoing (2022/2023)
3.	Muhammad Hadri Aziz (198934)	Cognitive Ergonomics Approach In Development Of Passive Upper Limb Exoskeleton Prototype For Overhead Task	Graduated (2021/2022)
4.	Amirul Iman Kamsi (198947)	Identifying Cognitive Ergonomic Factors In Gas District Cooling Putrajaya's Control Room Design Settings	Graduated (2021/2022)
5.	Ravi Shankar A/L Ambalakan (197260)	Determination Of Cognitive Errors In Engine Manual Assembly Line In Proton Shah Alam Manufacturing Complex	Graduated (2021/2022)

### Master

#### a) With Thesis

No.	Name	Title	Type of Supervision	Status
1.	Muhammad Nazirul Iszat Ismail (GS65059)	Investigation on Cognitive Ergonomic-driven Technologies Impact Over Work Performance Level of Malaysia Ageing Workforce in Office Setting	Chairman	Ongoing (2022-present)

#### b) Without Thesis

No.	Name	Title	Type of Supervision	Status
1.	Faraji Homayoun (GS58781)	Application of Cognitive Ergonomics Principles in Construction Management	Chairman	Ongoing (2021-present)
2.	Sadeq Ameen Abdo Al-Jaberi (GS60085)	Development Of Operator Training Simulator (Ots) In Refining Process for Atmospheric Distillation Column	Chairman	Graduated (2021/2022)

### PhD

No.	Name	Title	Type of Supervision	Status
1.	Wu Chunyan (GS63836)	Fatigue Test Analysis of MXene Improved Lead-Free Solder	Member	Ongoing (2022-present)