

CURRICULUM VITAE



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 Assoc. Prof.
 Department Environmental & Occupational Health
 Faculty of Medicine and Health Sciences
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Education

1. PhD in Manufacturing System Engineering
2. MSc in Manufacturing System Engineering
3. Bachelor of Engineering (Hons) Mechanical Engineering
4. Diploma of Education (Mechanical Engineering)

Areas of Interest

1. Occupational Safety and Health
2. Ergonomics
3. Emergency Response Preparedness
4. Industrial Safety

Professional Qualification/ Membership/ Affiliation

1. Board of Engineers Malaysia (BEM member no: 49700R)
2. The Institution of Engineers, Malaysia (IEM member no: 0012 G 34310)
3. Safe Kids Worldwide (Member)

Appointments (Inside and Outside UPM)

Date	Designation	Remarks
1. 2023 -	Assoc. Prof.	Universiti Putra Malaysia
2. 2020 - 2022	Head of Department Environmental & Occupational	Universiti Putra Malaysia
3. 2013 - 2019	Senior Lecturer	Universiti Putra Malaysia
4. 2006 - 2012	Lecturer	Politeknik Sultan Azlan Shah
5. 2002 - 2006	Lecturer	Politeknik Sultan Salahuddin Abdul Aziz Shah
6. 2000 - 2001	Process Engineer	Solectron Sdn Bhd, Seberang Prai, Penang

Publications

Journals (in 5 years)

1. Putri Anis Syahira Mohamad Jamil, Karmegam Karuppiah, Nur Athirah Diyana Mohammad Yusof, Dayana Hazwani Mohd Suadi Nata, Nurhanim Abdul Aziz, Vivien How, Shamsul Bahri Mohd Tamrin and Hassan Sadeghi Naeni (2022). Usability testing of a wireless individual indicator system application: Monitoring exposure to outdoor air pollution among Malaysian Traffic Police. Digital Health. Volume 8: 1–11. DOI: 10.1177/20552076221103336

2. Putri Anis Syahira Mohamad Jamil, Karmegam Karuppiyah, Irniza Rasdi, Vivien How, Shamsul Bahri Mohd Tamrin, Kulanthayan K.C. Mani, Hassan Sadeghi Naeni, Sivasankar Sambasivam, Nur Athirah Diyana Mohammad Yusof, Dayana Hazwani Mohd Suadi Nata (2022). The Impacts of Urban Pollution on Malaysian Traffic Police: A Framework for Evaluation of Real-Time Monitoring System on Its Usability. In IOP Conference Series: Earth and Environmental Science (Vol. 1013, No. 1, p. 012003). IOP Publishing.
3. Nur Athirah Diyana Mohammad Yusof, Karmegam Karuppiyah, Putri Anis Syahira Mohamad Jamil, Mohd Shamsuri Khalid, Shamsul Bahri Mohd Tamrin, Hassan Sadeghi Naeini (2022). Development of a high-powered Motorcycle Seat Discomfort Survey (MSDS): Traffic police motorcycle. International Journal of Industrial Ergonomics. Vol. 92, 1-8.
4. Josfirin Uding Rangga, Sharifah Norkhadijah Syed Ismail, Irniza Rasdi, Karmegam Karuppiyah (2022). Contribution of waste segregation to GHG emissions, land usage, and health risk of NMVOC exposure: a study in Malaysia. Journal of Material Cycles and Waste Management. Vol. 25, 181–197.
5. Zutiqa Aqmar Yazuli, Putri Anis Syahira Mohamad Jamil, Nur Athirah Diyana Mohammad Yusof, Karmegam Karuppiyah, Enoch Kumar Perimal, Hassan Sadeghi Naeini, Sivasankar Sambasivam, Puvanasvaran A Perumal (2022). Effect of Anti-Fatigue Mat on Leg Muscle Discomfort and Muscle Activity Due to Prolonged Work in Upright Position among Production Workers. Journal of Health and Safety at Work. Vol 12(3), 483-498.
6. Seyed Hashem Mosaddad, Hassan Sadeghi Naeini, Mahdijeh Jafarnejad Shahri, Karmegam Karuppiyah (2022). Product Design Process in the Context of Sustainable Development: An Approach to Waste Reduction. International Journal of Architectural Engineering & Urban Planning. Volume 32, Issue 3, 1-12.
7. Josfirin Uding Rangga, Sharifah Norkhadijah Syed Ismail, Irniza Rasdi, Karmegam Karuppiyah (2022). Waste Management Costs Reduction and the Recycling Profit Estimation from the Segregation Programme in Malaysia. Pertanika Journal of Science & Technology. Vol. 30(2), 1457 – 1478.
8. Ayuni Nabilah Alias, Karmegam Karuppiyah, Vivien How, Velu Perumal (2021). The Evaluation Of Vibrating Insole Prototype On Female School Teachers' Comfort. Natural Volatiles & Essential Oils Journal. Vol 8(4), 4107-4127.
9. Puvanasvaran A Perumal, Karmegam Karuppiyah, Lim Eu Sheng (2021). Validation of improvement in changeover of die bond process using basicmost technique. Songklanakarin Journal of Science & Technology. Vol 43(5). 1299-1304.
10. Jamil, P. A. S. M., Karuppiyah, K., Rasdi, I., How, V., Tamrin, S.B.M., Mani, K. K., & Hashim, N. M. (2021). Occupational hazard in Malaysian traffic police: special focus on air pollutants. Reviews on environmental health. Vol. 36, Issue 2, 167-176.
11. Abdurahman AlJohani, Karmegam Karuppiyah, Alya Al Mutairi, Abbas Al Mutair (2021). Narrative review of infection control knowledge and attitude among healthcare workers. Vol 11(1), 20-25.
12. Nurul Atikah Che Hasan, Karmegam Karuppiyah, Nurul Ainun Hamzah, Shamsul Bahri Mohd Tamrin (2021). Risk Factors of Fatigue: A Systematic Review Among Transportation Drivers. Vol 17(Supp8), 184-192.
13. K Nur Athirah D, Karmegam, R Irniza, Shamsul Bahri MT, H Vivien, Kulanthayan KC Mani, S Sivasankar, Mohd Hafzi MI (2020). High-Powered Police Motorcycle: Muscle Discomfort Among Malaysian Traffic Police Riders. Malaysian Journal of Public Health Medicine. Vol 20 (SP1), 255-259.
14. Sivabalan Sanmugum, Karmegam Karuppiyah (2020). Ergonomic Risk Assessment On Selected Hot-Work Workers At Company XXX. Malaysian Journal of Public Health Medicine. Vol 20 (Sp1), 176 – 185.

15. Ali Chegini, Rouzbeh Ghousi, Hassan Sadeghi Naeini, Karmegam Karuppiyah (2020). Developing a New Vertical Multiplier to Modify the Revised NIOSH Lifting Equation. *International Journal of Occupational Hygiene*. Vol 12(2), 107-121.
16. Ayuni Nabilah Alias, Karmegam Karuppiyah, Vivien How, Velu Perumal (2020). Prevalence of musculoskeletal disorders (MSDS) among primary school female teachers in Terengganu, Malaysia. *International Journal of Industrial Ergonomics*. Vol 77. 1-8.
17. Adriana Abdul Aziz, Karmegam Karuppiyah, Nurul Amanina Suhaimi, Velu Perumal, Enoch Kumar Perimal, Shamsul Bahri Mohd Tamrin (2020). Footrest intervention: Association between prolonged standing and perceived exertion in the body parts among industrial workers using Borg's scale questionnaire. *International Journal of Industrial Ergonomics*. Vol 76, 1-7.
18. Ayman Albeeli, Shamsul Bahri Mohd Tamrin, Ng Yee Guan, Karmegam Karuppiyah (2020). Musculoskeletal disorders and its association with self-reported productivity: a
19. cross-sectional study among public office-workers in Putrajaya, Malaysia. *Malaysian Journal of Medicine and Health Sciences*. Vol 16(4), 272-279.
20. A Perakas Rav, S Sivasankar, Nur Khusairi Razali, K Karmegam, P Velu, S Kulanthayan, Hassan Sadeghi Naeini (2020). A review of occupational safety and health problems among quarry plant workers. *Malaysian Journal of Medicine and Health Sciences*. Vol 16, 194-200.
21. Mohammadreza Sadeghi Hassan Sadeghi Naeini, Zahra Kaviani, Karmegam Karuppiyah (2020). Prevention of occupational traumas by developing an ergonomic design and modifying farmers' postures in walnut gardens of Tuyserkan, Iran. *Archives of Trauma Research*, Vol 9(1), 24-29.
22. Putri Anis Syahira Mohamad Jamil, Karmegam Karuppiyah, Irniza Rasdi, Vivien How, Shamsul Bahri Mohd Tamrin, Kulanthayan KC Mani, Sivasankar Sambasivam, Nur Athirah Diyana Mohammad Yusof, Nurul Maizura Hashim (2020). Associations of occupational, socio-demographic and lifestyle factors with lung functions in Malaysian traffic policemen. *Annals of global health*. Vol 86(1), 1-9.
23. Putri Anis Syahira Mohamad Jamil, Nur Athirah Diyana Mohammad Yusof, Karmegam Karuppiyah, Irniza Rasdi, Juliana Jalalludin, Shamsul Bahri Mohd Tamrin, Vivien How, Sivasankar Sambasivam, Nurul Maizura Hashim (2020). Malaysian Traffic Police in Highly Populated Areas: Is it Safe Working Outdoors on a Daily Basis? *Aerosol and Air Quality Research*. Vol 20(9), 2003–2011.
24. MJ Putri Anis Syahira, K Karmegam, MY Nur Athirah Diyana, R Irniza, MT Shamsul Bahri, H Vivien, H Nurul Maizura, S Sivasankar (2020). Impacts of pm 2.5 on respiratory system among traffic policemen. *Work*. Vol 66(1), 25-29.
25. Ayuni Nabilah Alias, Karmegam Karuppiyah, Vivien How, Velu Perumal (2020). Does Prolonged Standing at Work Among Teachers Associated With Musculoskeletal Disorders (MSDs)? *Malaysian Journal of Medicine and Health Sciences*. Vol 16(2), 281-289.
26. Diyana, M. A., Karmegam, K., Shamsul, B. M. T., Irniza, R., Vivien, H., Sivasankar, S., & Kulanthayan, K. C. M. (2019). Risk factors analysis: Work-related musculoskeletal disorders among male traffic policemen using high-powered motorcycles. *International Journal of Industrial Ergonomics*, 74, 102863.

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27. Jamil, P. A. S. M., Yusof, N. A. D. M., Hashim, N. M., Karuppiah, K., Rasdi, I., Tamrin, S. B. M., ... & Sambasivam, S. Respiratory Effects of Exposure to High Levels of Particulate Among Malaysian Traffic Police. *Mal J Med Health Sci* 15(SP4): 136-140, Dec 2019