

Assrul Reedza bin Zulkifli | Ph.D, P.Eng

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<https://scholar.google.com/citations?user=wxLtzoEAAAAJ&hl=en>



Ir. Dr. Assrul Reedza Zulkifli is a Senior Lecturer at the Faculty of Civil Engineering, Universiti Teknologi MARA, Malaysia, under the Construction Business and Project Management division. He is actively engaged in securing research grants from various ministries in Malaysia and has contributed to multiple projects funded by both public and private organizations. His research primarily focuses on construction management and Building Information Modelling (BIM). In addition, he has hands-on experience in the design and execution of construction projects, including dam construction, buildings, and infrastructure development in Malaysia.

2. EDUCATION

PhD in Civil Engineering (2025), Universiti Teknologi MARA, Malaysia

MSc (Construction Management) (2012) Universiti Teknologi Malaysia,

B Eng Civil Engineering (2008) Universiti Teknologi Malaysia.

3. EMPLOYMENT

Oct 13 - present - **Senior Lecturer**

Faculty of Civil Engineering, Universiti Teknologi MARA, Malaysia

Jan 2011-Jan 2012 – **Project Engineer**

Dekon Sdn. Bhd.-for

MMCGamuda JV

Construction of railway station Electrified Double Track project package N5

July 2008- Dec 2010 – **Design Engineer/Assistant Resident Engineer**

Sepakat Setia Perunding Sdn. Bhd.

Construction of Roller Compacted Concrete Dam at Sg. Batu Hampar Ulu

Sepri Negeri Sembilan

4. PROFESSIONAL MEMBERSHIP

- Professional Engineer registered with the Board of Engineers Malaysia (P 20680) and The Member of The Institution of Engineer Malaysia (MIEM 72472)
- ASEAN Chartered Professional engineer (ACPE) - ACPE-05509/MY
- OSHCIM Professional by Department Safety & Health (DOSH) Malaysia

5. RECENT INDICATORS OF PROFESSIONAL ESTEEM**Awards & Recognitions:**

GOLD Award on Research Pitch On Civil, Structure & Environmental Engineering, INTERNATIONAL CONGRESS ON ENGINEERING AND TECHNOLOGY (ICET) 2024

GOLD Award (Invention, Innovation & Design Exposition (IIDEX 2017) (17'); Universiti Teknologi MARA Excellence Award (2017'); Develop a web based and apps based CONSTRUCTION SITE INSPECTION AND MANAGEMENT SYSTEM (CONSIMS) in 2016

Citation Profile in 2025: Citations: 78; h-index: 5; *source: Google Scholar*)

Knowledge transfer experience: Training for ICP program under ETS 3 project in Hunan Vocational College of Railway Technology, China on Railway Engineering for 3 months. (2025)

Department of Occupational Safety and Health (DOSH), Construction Industry Development Board (CIDB) Malaysia, and Syarikat Perumahan Negara Berhad (2017-2013)

Teaching experience: Construction project management, construction law, engineering drawing, construction technology, Civil Engineering Quantities & Estimation, Building Services, Railway Engineering related course.

6. RECENT PUBLICATIONS (JOURNAL & PROCEEDING)

2024 Exploring The Role Of Building Information Modeling in Prevention Through Design Practices: The Findings in Malaysia's Construction Industry Zulkifli, A.R., Che Ibrahim, C.K.I., Belayutham, S. Handbook of Drivers of Continuous Improvement in Construction Health Safety and Wellbeing Open source preview, 2024, pp. 69–78

2023 An interplay of building information modelling and prevention through design (BIM-PtD) towards safe design, AIP Conference Proceedings DOI: 10.1063/5.0168005 Zulkifli A.R.; Che Ibrahim C.K.I.

2021 An Absorptive Capacity (AC) Concept of External Knowledge and Experience on Building Information Modelling (BIM) Implementation Among Construction Stakeholders in Malaysia Azman, F.D., Zulkifli, A.R., Yahya, N.A.

2021 The Integration of Building Information Modelling (BIM) and Prevention Through Design (PtD) Towards Safety in Construction: A Review Zulkifli, A.R., Ibrahim, C.K.I.C., Belayutham, S. Lecture Notes in Civil Engineering Open source preview, 2021, 139 LNCE, pp. 271–283

2019 The attributes of social sustainability in construction: A theoretical exploration Kordi, N.E., Belayutham, S., Ibrahim, C.K.I.C., Zulkifli, A.R. Association of Researchers in Construction Management Arcom 2019 Proceedings of the 35th Annual Conference Open source preview, 2019, pp. 629–638

2018 Activation Trigger For Organisational Bim Learning: Views From Malaysian Construction Stakeholders **Assrul Reedza Zulkifli**, Che Khairil Izam Che Ibrahim, Sheila Belayutham, Association of Researchers in Construction Management ARCOM 2018: 34th Annual Conference – Belfast, United Kingdom : A Productive Relationship: Balancing Fragmentation and Integration

2017 Energy Consumption Of Insulated Material Using Thermal Effect Analysis Mohd Fadzil Bin Arshad, Norliyati Binti Haji Mohd Amin, M. A. Hilmi, Ahmad Ruslan Bin Mohd Ridzuan, M. H. Wan Ibrahim, **Assrul Reedza Bin Zulkifli**, Universiti Tun Hussein Onn Malaysia, Novotel Melaka

2017 Characterization Of Kaolin As Nano Material For High Quality Construction Mohd Fadzil Bin Arshad, Muhd Norhasri Bin Muhd Sidek, Norliyati Binti Haji Mohd Amin, Hamidah Bt Mohd Saman @ Hj Mohamed, M. H. Wan Ibrahim, **Assrul Reedza Bin Zulkifli**, Universiti Tun Hussein Onn Malaysia, Novotel Melaka

2017 Site Inspection For Construction Projects Using Inspection Test Plan (ITP) Intan Rohani Binti Endut, Ahmad Ruslan Bin Mohd Ridzuan, **Assrul Reedza Bin Zulkifli**, Journal Of Engineering And Applied Sciences , Medwell Journals, page no : 1835, vol : 12

2017 Energy Consumption Of Insulated Material Using Thermal Effect Analysis Mohd Fadzil Bin Arshad, Norliyati Binti Haji Mohd Amin, Ahmad Ruslan Bin Mohd Ridzuan, **Assrul Reedza Bin Zulkifli**, Matec Web Of Conferences, EDP Sciences, page no : 1, vol : 103

2017 Project Quality Plan (PQP) Implementation During Site Inspection Nur Nabihah Abd Raza, Intan Rohani Binti Endut, Siti Akmar Bte Abu Samah, Ahmad Ruslan Bin Mohd Ridzuan, Sabihah Saaidin, **Assrul Reedza Bin Zulkifli**, Journal Of Engineering And Applied Sciences, Medwell Journals, page no : 803, vol : 12, issues : 4

2016 Modelling Daily Streamflow Using Genetic Algorithm, Shahrul Nizam Bin Mohammad, **Assrul Reedza Bin Zulkifli**, Mohamed Khatif Tawaf Bin Mohamed Yusof, Diana Binti Che Lat, Mohd Amran Bin Hasbullah, Assoc Prof Dr Ismail Atan Dr Aminuddin Mohd Baki, Journal Of Advanced Research In Applied Mechanics , Penerbit Akademia Baru, page no : 1, vol : 26, issues : 1

2015 Automated System For Quality Control In Malaysia Construction Projects: A Review Of Literature Intan Rohani Binti Endut, Ahmad Ruslan Bin Mohd Ridzuan, **Assrul Reedza Bin Zulkifli**, Universiti Teknologi MARA, Pulau Pinang, G-Hotel, Pulau Pinang

2014 Construction Of Roller Compacted Concrete Dam In Malaysia: Batu Hampar Dam **Assrul Reedza Bin Zulkifli**, Mohd Fadzil Bin Arshad, Juhaizad Bin Ahmad, Universiti Teknologi Mara, The Pacific Sutera Harbour Resort, Sabah

8. RECENT GRANTS (RESEARCH & CONSULTANCY)

NO.	RESEARCH PROJECT TITLE	YEAR	ROLE	GRANT TYPE	LEVEL
1	PROJECT MASS RAPID TRANSIT LALUAN 2 : SUNGAI BULOH-SERDANG-PUTRAJAYA (SSP) PACKAGE V206 : CONSTRUCTION AND COMPLETION OF VIADUCT GUIDEWAY AND OTHER ASSOCIATED WORKS FROM SERDANG RAYA TO UPM	2020	Member	OTHER GRANTS (OTHER GRANTS)	PRIVATE
2	DESIGNER COMPETENCY MATRIX FOR PREVENTION THROUGH DESIGN (DCM-PTD) PRACTICE OM CONSTRUCTION PROJECTS	2020	Member	OTHER GRANTS (OTHER GRANTS)	NATIONAL
3	IDENTIFICATION OF POTENTIAL BAMBOO MAPPING AREA IN KUALA KENIAM TAMAN NEGARA PAHANG	2019	Member	SELF-FUNDED (SELF FUNDED)	UNIVERSITY
4	IDENTIFICATION OF POTENTIAL BAMBOO MAPPING AREA IN KUALA KENIAM TAMAN NEGARA PAHANG	2019	Member	SELF-FUNDED (SELF FUNDED)	UNIVERSITY
5	BUILDING SUSTAINABLE FLOATING BAMBOO FISH CAGE FOR ORANG ASLI IN KUALA KENIAM TAMAN NEGARA PAHANG	2019	Member	SELF-FUNDED (SELF FUNDED)	UNIVERSITY
6	ABSORPTIVE CAPACITY MODEL OF BUILDING INFORMATION MODELLING (BIM) IMPLEMENTATION AMONG CONSTRUCTION PROJECT STAKEHOLDERS IN MALAYSIA	2019	Project Leader	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL
7	NUMERICAL LOCALIZED CONCRETE BEARING FAILURE MODEL	2018	Member	BESTARI (BESTARI)	UNIVERSITY

8	UTILISATION OF INTERNAL EXPERTISE TO DESIGN AND EXECUTE REPAIR FOR PUBLIC UTILITY IN KUALA KENIAM	2017	Project Leader	DANA KUALA KENIAM (KENIAM)	UNIVERSITY
9	DESIGN AND CREATIVE APPROACH IN REPAIR AND CONSERVATION OF ADMINISTRATION BUILDING IN KUALA KENIAM	2017	Member	DANA KUALA KENIAM (KENIAM)	UNIVERSITY
10	OPTIMISING CREATIVITY AND INTERNAL EXPERTISE FOR REHABILITATION OF RESEARCH FACILITIES IN KUALA KENIAM	2017	Member	DANA KUALA KENIAM (KENIAM)	UNIVERSITY
11	FRAMEWORK OF AUTOMATED QUALITY CONTROL AND MONITORING SYSTEM IN CONSTRUCTION PROJECT FOR SITE INSPECTION	2014	Project Leader	RESEARCH ACCULTURATION GRANT SCHEME (RAGS)	NATIONAL

NO	CONSULTATION PROJECT	CLIENT	YEAR	ROLE
1	Static And Dynamic Assessment Of Sleeper According To En 13230-2:2009 For North-south Commuter Railway – Extension (nscrex-ns01) Project, Philippines.	EASTERN PRETECH (MALAYSIA) SDN. BHD	2025	MEMBER
2	Assessment Of Static And Fatigue Performance Concrete Sleeper For Construction Of Single Line Inland Port Chipping Perlis For Rc Asia Engineering Sdn Bhd	RC ASIA ENGINEERING SDN BHD	2025	MEMBER
3	Static Assessment Of Insert/dowel Of Refurbished Fastening System Of On-site Sleeper Of Electrified Double Track Project Gemas- Johor Bahru	BESTSONIC ENGINEERING	2025	MEMBER
4	Short Term Assessment Of Gas Pressure Welding For Project Penyiapan Baki Kerja - Transformasi Ktmb — Infrastruktur Landasan - Proposed Rehabilitation, Upgrading Of Railway Track And Associated Works From Kempas Baru To Pasir Gudang Rail Station, Yards And Johor Port Line, Johor	PUNCAK GALI HARMONI SDN. BHD	2025	MEMBER
5	Welding Optimization Of Fbw For Project Penyiapan Baki Kerja - Transformasi Ktmb — Infrastruktur Landasan - Proposed Rehabilitation, Upgrading Of Railway Track And Associated Works From Kempas Baru To Pasir Gudang Rail Station, Yards And Johor Port Line, Johor	CENTER RICH LAND INDUSTRY PTE LTD	2025	MEMBER

6	Assessment Of Long-term Performance Of Fbw For Project Penyiapan Baki Kerja - Transformasi Ktmb — Infrastruktur Landasan - Proposed Rehabilitation, Upgrading Of Railway Track And Associated Works From Kempas Baru To Pasir Gudang Rail Station, Yards And Johor Port Line, Johor	PUNCAK GALI HARMONI SDN. BHD	2024	MEMBER
7	Short Term Assessment Of Rail Pad For Klang Valley Double Track Phase 2 (kvdt II) Project	DHAYA MAJU INFRASTRUCTURE (ASIA) SDN. BHD	2024	PROJECT LEADER
8	Lantikan Sebagai Pelatih Kursus Upskilling Ibs Bagi Tenaga Pengajar Kolej Vokasional Teknologi Pembinaan 2024	Kolej Vokasional	2024	MEMBER
9	Oshcim Training For Aecom	AECOM Consulting Engineers	2023	PROJECT LEADER
10	Building Information Modelling (BIM) Training for Universitas Islam Indonesia	UNIVERSTAS ISLAM INDONESIA	2023	PROJECT LEADER
11	Program Keselamatan Dan Kesihatan Pekerjaan Tahun 2022	Perkeso	2022	MEMBER
12	Program Keselamatan Dan Kesihatan Pekerjaan Tahun 2021	Perkeso	2021	MEMBER
13	Program Keselamatan Dan Kesihatan Pekerjaan Tahun 2020	Perkeso	2020	MEMBER
14	Advancing Safety Throughout The Life Cycle Of Construction	Perkeso	2019	MEMBER
15	Bengkel Latihan Oshci(m) Untuk Perunding Sivil Dan Struktur	CIDB	2019	MEMBER
16	Bengkel Latihan Oshci(m) Untuk Perunding Sivil Dan Struktur	CIDB	2018	MEMBER
17	Pembangunan Modul Latihan Prevention Through Design Untuk Arkitek	CIDB	2018	MEMBER
18	Program Latihan Oshci (m) Untuk Rekabentuk Sivil And Struktur	CIDB	2017	MEMBER
19	Pembangunan Modul Latihan Oshci(m) Untuk Perunding Sivil Dan Struktur	CIDB	2017	MEMBER

17. INVITED / GUEST SPEAKERS

Prevention Through Design : Civil & Structural Engineers, DOSH Safety & Health Workshop, since 2018 – Present

Occupational Safety & Health Construction Industry (management) OSHCIM Train the trainer, 2019- Present