



Assoc. Prof. Ir. Dr. Mohammed Alias Yusof.

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2.	Position/ Office Address	Assoc. Professor Department of Civil Engineering Faculty of Engineering Department of civil Engineering National Defense University of Malaysia Sungai Besi Military Camp 57000 Kuala Lumpur Malaysia Tel : 03 90514527 Fax : 03 -90513472 Email : alias@upnm.edu.my
3	Age	47
4.	House Address Email/ H-Phone	2, Jalan Wawasan 4, Seksyen 14, Bandar Baru Bangi Selangor alias@upnm.edu.my 019 – 2696445
5.	Academic Qualification/ Field of Specialization/ Institution and Year Award	<u>Academic Qualification:-</u> a. Diploma civil engineering from University Technology Malaysia (1993). b. Bachelor of Civil Engineering from University Technology Malaysia (2002). c. M.sc integrated Construction Project Management from University Technology Mara, Malaysia. (2005). Thesis Title “Excusable delays in Malaysian Construction Contract “ d. PhD in Civil Engineering from Universiti Pertahanan Nasional Malaysia (2012).- Thesis Title “ Performance of hybrid steel fibre reinforced concrete subjected to Air Blast Loading “
6	Professional Qualification	Registered as a Professional Engineer with Board of Engineers Malaysia.(P.Eng). (Ir)

7.	Membership of Professional Bodies	<p>Corporate Member - Institutional of Engineers Malaysia (M.I.E.M) ASEAN Associate Engineer – 2012 – Todate Council Member – Concrete Society of Malaysia (M.C.S.M) Associate Member of American Concrete Institute (K.L. Chapter) (M.A.C.I) Member of Association of Protective Structure (UK)</p>																								
8.	Year of Experience in Industry Practice	<p>15 years working experience in the various sectors in Civil Engineering consultant and contractor as a civil engineer.</p> <p>Previous Industry working experience</p> <table border="1" data-bbox="480 707 1337 1305"> <thead> <tr> <th>Year</th> <th>Position</th> <th>Company</th> <th>Projects</th> </tr> </thead> <tbody> <tr> <td>1992</td> <td>Site Engineer</td> <td>Sanko Metal industry</td> <td>KLIA, Perwaja Steel,</td> </tr> <tr> <td>1995</td> <td>Project Engineer</td> <td>Kennison Brothers Construction Sdn Bhd</td> <td>Bandar Sg Buaya, Bolton Industri Park, cyberjaya</td> </tr> <tr> <td>2000</td> <td>Inspector of work</td> <td>TYL Perunding Sdn Bhd</td> <td>Damansara Damai, Sg Buloh</td> </tr> <tr> <td>2002</td> <td>Resident Engineer</td> <td>TYL Perunding Sdn Bhd</td> <td>Damansara Damai, Sg Buloh</td> </tr> <tr> <td>2007</td> <td>Civil Engineer</td> <td>TYL Perunding Sdn Bhd</td> <td>Bandar Botanik, Klang,</td> </tr> </tbody> </table>	Year	Position	Company	Projects	1992	Site Engineer	Sanko Metal industry	KLIA, Perwaja Steel,	1995	Project Engineer	Kennison Brothers Construction Sdn Bhd	Bandar Sg Buaya, Bolton Industri Park, cyberjaya	2000	Inspector of work	TYL Perunding Sdn Bhd	Damansara Damai, Sg Buloh	2002	Resident Engineer	TYL Perunding Sdn Bhd	Damansara Damai, Sg Buloh	2007	Civil Engineer	TYL Perunding Sdn Bhd	Bandar Botanik, Klang,
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2007	Civil Engineer	TYL Perunding Sdn Bhd	Bandar Botanik, Klang,																							
9.	Research Paper	<ol style="list-style-type: none"> 1. Mohammed Alias Yusof, Noraziah Mohammad , Zulhairuse. “ Excusable and Compensable delays in the construction of building project in Malaysia”. The Institute of Engineers Malaysia Journal . Vol 68, No 4, 2008. 2. Alias, M.Y., Norazman, M.N. Ariffin, I, Ahmad.M, Ng, C.P. and Fauzi, M.Z., M.S Risby, 2009. “An Overview of Field Blast Test on Concrete Structures Subjected to Blast Loading”. Asia Pacific Conference on Defence and Security Technology, Hotel Istana, Kuala Lumpur, 6-7 October 2009. 3. Nizamuddin, A.J., Ng, C.P., Neza, I., Alias, M.Y., Norazman, M.N. 2009. ” Effects of Electromagnetic Pulse (EMP) and High-Altitude Electromagnetic Pulse (HEMP) and Shielding Design for Building”. Proceedings of the Asia Pacific Conference on Defence and Security Technology 2009, Paper No. 40. 4. Alias, M.Y., Norazman, M.N., Arifin, I., Risby, S. and Ng, C.P. 2009. “Investigation of the Behaviour of Steel Fibre Reinforced 																								

		<p>Concrete subjected to Blast Loading”. Proceedings Regional Engineering Postgraduate Conference 2009, 20-21 October 2009, Kuala Lumpur, Malaysia</p> <ol style="list-style-type: none"> <li data-bbox="528 322 1453 461">5. N. Mohammad, A. I. Che Ani, R.A.Rahmat, M.A.Yusof. Causes of variation order in the construction of building projects – A study in the state of Selangor , Malaysia . Proceeding on the sustainable materials conference” 12- Oktober 2009, Kuala Lumpur. <li data-bbox="528 555 1453 694">6. N. Mohammad, A. I. Che Ani, R.A.Rahmat, M.A.Yusof. Overview of variation order in the construction of building project in Malaysia. Proceedings Regional Engineering Postgraduate Conference 2009, 20-21 October 2009, Kuala Lumpur, Malaysia <li data-bbox="528 719 1453 857">7. Alias, M.Y., Norazman, M.N., Arifin, I., Risby, S. and Ng, C.P. 2009. “Investigation of kenaf fiber Reinforced Concrete subject to Impact Loading. Proceeding on the sustainable materials conference” 12- Oktober 2009, Kuala Lumpur <li data-bbox="528 882 1453 976">8. Norazman, Zainudin, Neza, Alias, Hapsa. 2010 “ Damaged Evaluation Procedure for building demolition subjected to blast loading” European Journal of Scientific Research , Vol 39, Issue 3. <li data-bbox="528 1023 1453 1162">9. M.Y.Alias, M.N.Norazman, A. Ismail, M.S.Risby, C.P.Ng, M.F.M.Zain. Field Blast Testing using High Speed Data Acquisition System for Hybrid Steel Fiber Reinforced Concrete Panel. European Journal of Scientific Research . 44 (4) : 585-595, 2010. <li data-bbox="528 1209 1453 1348">10. Ng Choy Peng, Mohammed Alias Yusof and Norazman Mohammad Nor. Teaching highway engineering in civil engineering program : Curriculum , Pedagogy and Assessment. World Engineering Congress, 2010, 2- 5 Ogos, Kuching, Sarawak, Malaysia. <li data-bbox="528 1395 1453 1574">11. Mohammed Alias Yusof, Ng Choy Peng and Norazman Mohammad Nor. Learning outcome assessment technique for Final year project , A case study at University Pertahanan Nasional Malaysia. World Engineering Congress, 2010, 2- 5 Ogos, Kuching, Sarawak, Malaysia. <li data-bbox="528 1621 1453 1760">12. M.Y.Alias, M.N.Norazman, A. Ismail, M.S.Risby, C.P.Ng, M.F.M.Zain. Normal strength steel fiber reinforced concrete subjected to explosive loading. International Journal of Sustainable Construction Engineering and Technology, 1 (2)2010 . <li data-bbox="528 1807 1453 1946">13. M.Y.Alias, M.N.Norazman, A. Ismail, M.S.Risby, C.P.Ng, M.F.M.Zain. Response of Steel fibers Reinforce Concrete Panel subject to blast loadings, Zulfaqar Journal: Asian Defence And Security, 1(1) : 31- 40, 2010. <li data-bbox="528 1993 1453 2040">14. M.Y.Alias, M.N.Norazman, A. Ismail, M.S.Risby, C.P.Ng, M.F.M.Zain. Development of Blast Resistance Concrete Panel,
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Journal of Defense and Security (MIDAS), 1, (2) : 238-250, 2010.

15. M.Y.Alias, M.N.Norazman, A. Ismail, M.S.Risby, C.P.Ng, M.F.M.Zain. Response of Steel fiber subjected to blast loading. 28th Conference of Federation of Engineering Organization, Hanoi Vietnam, 30th – 2nd December 2010.
16. Mohammed Alias Yusof, Norazman, Arifin Ismail, Mohd Shazlan. Using LabView and PXI to measure field blast test. National Instrument, 2010.
17. Ng Choy Peng, Norazman Mohamad Nor, Mohammed Alias Yusof, Hapsa Husen. Learning outcome as tool to assess the progression of Civil Engineering Education in Univesiti Pertahanan Nasional Malaysia. 28th Conference of Federation of Engineering Organization, Hanoi Vietnam, 30th – 2nd December 2010.
18. M.Y.Alias, M.N.Norazman, A. Ismail, M.S.Risby, C.P.Ng, M.F.M.Zain. Measurement of Field blast testing data using high speed data acquisition system for steel fiber reinforced concrete. Defense Science and Research Conference , Singapore , 3-5 August 2011.
19. M.Y.Alias, M.N.Norazman, A. Ismail, M.S.Risby, M.F.M.Zain. Numerical simulation on hybrid steel fibre concrete subjected to air blast loading. International Conference on Advance Modelling and Simulation, Rawalpindi, Pakistan , 28- 30 November 2011.
20. M.Y.Alias, M.N.Norazman, A. Ismail, M.S.Risby, C.P.Ng, M.F.M.Zain. Numerical simulation for hybrid steel fiber reinforced concrete subjected to air blast loading. Simulation and Modelling Conference, Pakistan, 27- 30 November 2011.
21. M.Y. Alias , M.S.Risby, C.P.Ng, M.F.M.Zain. Mechanical Properties of Hybrid Steel Fiber Reinforced Concrete with Different Aspect Ratio. Australian Journal of Basic and Applied Science. 5(7) : 159-166, 2011.
22. Norazman Mohammad Nor, Agustril, Shohaimi Abdullah and Mohammed Alias Yusof . Static Analysis and design of sandwich composite long span beam . International Journal of Physical Science. 2011.
23. Mohamad Ruzaimi Mohamad Yusof, Choy Peng Ng, Belinda Marie Balraj, Mohammed Alias Yusof. Effect of Rubber Size in Reclaimed Rubber Modified Asphalt Mixes. Eastern Asia Society for Transportation Studies. Proceedings of the Eastern Asia Society for Transportation Studies The 9th International Conference of Eastern

Asia, 2011. 259-259.

- 24.** Belinda Marie Balraj Choy Peng Ng, Feiruz Ab'lah, Mohammed Alias Yusof. The Effectiveness of the Integrated Transport Information System in Kuala Lumpur City. 9th International Conference of the Eastern Asia Society for Transportation Study. 2011.
- 25.** Choy Peng Ng, Feiruz Ab'lah, Mohammed Alias Yusof, Belinda Marie Balraj. The Effectiveness of the Integrated Transport Information System in Kuala Lumpur City. Proceedings of the Eastern Asia Society for Transportation Studies .The 9th International Conference of Eastern Asia Society for Transportation Studies, 2011. 287-287.
- 26.** Norazman Mohammad Nor, Agustril, Mohammed Alias Yusof and Shohaimi Abdullah. Dynamic Analysis of sandwich composite foldable structure under heavy vehicle load. Applied Mechanic and Material Journal, 2012.
- 27.** Ahmad Humaizi, Norazman Mohammad Nor, Mohammed Alias Yusof. Preliminary study on cutting solid object using explosive. Applied Material Research , 2012.
- 28.** M.Y.Alias, M.N.Norazman, A. Ismail, Award Winning Blast Resistance Concrete . New Strait Times, 2012.
- 29.** Norazman Mohammad, Mohammed Alias Yusof, Ahmad Mujahid Ahmad Zaidi. Retrofitting options for un reinforced brick wall subjected to impact load. Advance Material Research Journal, 2013.
- 30.** Muhamad Kamil, Choy Peng Ng, Faridah Hanim , Mohammed Alias yusof. The Automated Speed Enforcement System : A Case Study in Putrajaya. Journal of the Eastern Asia Society for Transportation Studies. 2013. Vol 10. 2133-2136.
- 31.** Mohd Azland, CP Ng, MA Yusof - The prevalence of helmet wearing among young motorcyclists in Klang Valley. Proceedings of the Eastern Asia Society for Transportation Studies. 2013.Vol 9. Page 1-13.
- 32.** Norazman Mohamad Nor, Mohd Hanif Ahmad Boestamam, Mohammed Alias Yusof. Carbon Fiber Reinforced Polymer (CFRP) as Reinforcement for Concrete Beam. International Journal of Emerging Technology and Advanced Engineering.2013. Vol 3. Issue 2. Page 6-10.
- 33.** Muhamad Azani Yahya, Mohammed Alias Yusof , Zulkifli Abu Hassan , Nazrin Daud , Nooraina Misnon, Siti Khadijah Che Osmi ,

Norita Ridzuan and Mohamad Yusrin Yahaya. Usage of Sugarcane Bagasse as Concrete Retarder. International Journal of Business and Techno premiership .Volume 3, No. 3, October 2013 .495-503.

- 34.** Mohammed Alias Yusof, Norazman Mohammad Nor, Ariffin Ismail. Performance of Hybrid Steel Fibre Reinforced Concrete Subjected to Air Blast Loading. Journal for Advance in Material Science and Engineering, 2013.
- 35.** Mohammed Alias Yusof, Norazman Mohammad Nor, Ariffin Ismail. Simulation of reinforced concrete blast wall subjected to air blast loading. Journal of Asians Scientific Research, 2014.4(9):522-523.
- 36.** Mohammed Alias Yusof, Norazman Mohammad Nor, Ariffin Ismail. Simulation of annealed glass subjected to air blast loading. International Journal of Technology and Advance Engineering. Vol 4, issue 8, 2014.
- 37.** S Umar, MS Risby, A Luthfi Albert, M Norazman, I Ariffin, Y Muhamad Alias. Numerical simulation of the fluid-structure interaction between air blast waves and soil structure. AIP Conference Proceedings 1588, 293 (2014); <https://doi.org/10.1063/1.4866963>.
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- 39.** Mohammed Alias Yusof, Norazman Mohammad Nor, Ariffin Ismail. Simulation of laminated glass using resin subjected to air blast loading. Australian journal of basic and applied science. 2015.
- 40.** Khalis Suhaimi, Risby Sohaimi, Feizal Victor Feizal, Mohammed Alias Yusof. Design of Blast Capsule for Occupant Survivability Investigation from Mine Blast Event.3 rd International Conference on Recent Advances in Automotive Engineering & Mobility Research Melaka, Malaysia. 2015.
- 41.** Muhamad Azani Yahya, Mohammed Alias Yusof, Norita Ridzuan, Mohamad Yusrin Yahya, Ab Aziz, Ahmad Azizi. Usage of Sugarcane Bagasse as an Additive in Building Materials. Applied Mechanics and Materials. 2015. Vol 754. 369-372.
- 42.** Mohammed Alias Yusof, Norazman Mohammad Nor, Ariffin Ismail. Field blast testing measurement technique for industrial appliacation. International conference and Knowledge Transfer , 2015, Putrajaya Malaysia. 1-3 Disember 2015.

- 43.** Arif, Saidi, Risby and Mohammed Alias Yusof, Using Computational Fluid Dynamics (CFD) for Blast Wave Propagation under Structure. *Procedia Computer Science* 80:1202-1211 , 2016
- 44.** Muhammad Azani, Vikneswaran Munikanan, Mohammed Alias Yusof. Implementation of rapid construction concepts toward the improvement of quality in construction project. *Engineering and Technology applied science*. 2016.
- 45.** MA Yahya, V Munikanan, MA Yusof - Innovation in Lean Thinking to Achieve Rapid Construction. *World Academy of Science, Engineering and Technology, International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*. 2016.
- 46.** A.F.M.Ishak S. Khalis M. N. Norazman .Ariffin M.A.Yusof. Using Computational Fluid Dynamics (CFD) for Blast Wave Propagation under Structure. *Procedia Computer Science*. 2016, Volume 80, Pages 1202-1211.
- 47.** MN Hafizi, MS Risby, KS Tan, MN Norazman, Y Muhamad Alias, I Ariffin. Numerical Simulation of an Armored Vehicle Underbelly Subjected to Air Blast Loading. *International Journal of Fluids and heat transfer* Volume 1 Issue 3rd September 2016.
- 48.** Simulation of Hybrid-III Dummy Response Using Three LS-DYNA Blast Methods Muhammad Fahmi Md. Isa, Risby Mohd Sohaimi, Norazman Mohamad, Shohaimi Abdullah, Megat Mohamad Hamdan Megat Ahmad, Ariffin Ismail, Muhammad Alias Yusof,. Special Issue for the 3rd International Conference on Defence and Security (DSTC 2016), 15- 17 August 2016, Marriot Hotel, Putrajaya, Malaysia
- 49.** Muhammad Fahmi Md. Isa, Risby Mohd Sohaimi, Norazman Mohamad, Shohaimi Abdullah, Megat Mohamad Hamdan Megat Ahmad, Ariffin Ismail & Muhammad Alias Yusof. Simulation on the Shock Attenuation Behaviour of Coupled RHA and Sandwich Composite Panel Under Blast Loading. Special Issue for the 3rd International Conference on Defence and Security (DSTC 2016), 15- 17 August 2016, Marriot Hotel, Putrajaya, Malaysia.
- 50.** N.M.Nor, K.F.Wen, V. Munikan and M.A.Yusof. Measuring state of readiness of the Malaysian Armed Forces. Special Issue for the 3rd International Conference on Defence and Security (DSTC 2016), 15- 17 August 2016, Marriot Hotel, Putrajaya, Malaysia
- 51.** M.A.Yahya, U.N.M.Ali, M.A.Yusof , N.M.Nor.High tensile concrete using waterproofing agent for impact loading. Special Issue for the 3rd International Conference on Defence and Security (DSTC 2016), 15- 17 August 2016, Marriot Hotel, Putrajaya, Malaysia.

52. UPNM Blast Research Team – Article publish in Faculty of Engineering, UPNM Bulletin 2016.

53. M. Vikneswaran, Ananthan, S., Wong, W.L., Muhamad Azani Yahya, Mohammed Alias Yusof and Rabiatul Adawiyah Ahamad Raffiee. Signage Implementation for Disaster Relief Centers During Flood Disaster in Malaysia. 4th AUN/SEED-NET Regional Conference on Natural Disaster (RCND) 2016, 6-7 Sept 2016, Seri Pacific Hotel, Kuala Lumpur.

54. Muhammad Azani, Vikneswaran Munikanan, **Mohammed Alias Yusof**. Achieving Sustainable Rapid Construction Using Lean Principles. International Journal of economic and management engineering, Vol 4. No 5. 2017.

55. Arif, Saidi, Risby and **Mohammed Alias Yusof**. Computational fluid dynamic simulation of metal structures subjected to blast loading. Symposium on vehicle structure , materials and system. 2017.

56. **Mohammed Alias Yusof**, Norazman Mohammad Nor, Ariffin Ismail Simulation for Demolition on Building Structure using Explosive Method. International Journal of Advanced and Applied Sciences, 2017.

57. M. Vikneswaran, Ananthan, S., Wong, W.L., Muhamad Azani Yahya, Mohammed Alias Yusof and Rabiatul Adawiyah Ahamad Raffiee .The Implementation of Signage as the Tool Guide in Intelligent Transportation System for Disaster Relief Centers during Flood Disaster in Malaysia. 9th International Conference on Humanity and Social Science, 26 Mei 2017, Hat Yai, Thailand.

58. M. Vikneswaran, Ananthan, S., Wong, W.L., Muhamad Azani Yahya, Mohammed Alias Yusof and Rabiatul Adawiyah Ahamad Raffiee (2016). Signage Implementation for Disaster Relief Centres During Flood Disaster in Malaysia. 4th AUN/SEED-NET Regional Conference on Natural Disaster (RCND) 2016, 6-7 Sept 2016, Seri Pacific Hotel, Kuala Lumpur.

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- 60.** MA Yahya, MA Yusof. Preliminary Study on Foam Concrete Infill Bamboo as Construction Materials. *Journal of Engineering and Applied Sciences*. Vol 12. Issue 16. 4063-4067. 2017.
- 61.** NM Nor, MAA Ghazali, MZ Ahmad, MA Yusof, M Vikneswaran, MA Yahya. Revisiting high strength concrete using common admixtures. *Journal of Fundamental and Applied Sciences*, 2017. Vol 9. Issue 3s. 546-554.
- 62.** Umi nadiyah, Norazman Mohamad Nor, Mohammed Alias Yusof, Muhamad Azani Yahya, Maidiana Othman. Heat Conductivity Resistance of Concrete Wall Panel by Water Flowing in Different Orientations of Internal PVC Pipe. UTHM Conference Portal, 4th International Conference on Civil and Environmental Engineering for Sustainability (IConCEES 2017).
- 63.** NM Daud, NM Nor, UNN Ali, MA Yusuf, V Munikanan - Affordable Housing System: A Review on Issue of Housing Affordability. 2017. *The Social Sciences*. Vol 12. Issue 7. Page 1281-1287.
- 64.** Norhasliya Mohd Daud, Norazman Mohamad Nor, Umi Nadiyah Nor Ali, Mohammed Alias Yusuf, Vikneswaran Munikanan. Affordable Housing system. *The social science journal*. Vol 12. Issue 7, page 1281-1287.2018.
- 65.** M Vikneswaran, Rabiatal Adawiyah Ahmad Raffiee, Mohammed Alias Yusof, Muhamad Azani Yahya, S Ananthan Subramaniam, Wong Wai Loong, Maidiana Othman, Jessica Galerial. Implementation of safety signage to ease transportation system in disaster prone area. *AIP Conference Proceedings* 1930 (1), 2018.
- 66.** AA Musthaffa, NM Nor, MA Yusof, MY Yuhazri. New conceptual design of portable bamboo bridge for emergency purposes. *AIP Conference Proceedings* 2018.
- 67.** Norhasliya Mohd Daud, Norazman Mohamad Nor, Mohammed Alias Yusof, Azrul Affandhi Mustaffa Al Bakhri, Amalina Aisyah Shaari. The physical and mechanical properties of treated and untreated .*AIP Conference Proceedings*, 2018.
- 68.** Khairul Hasni Kamarudin, Mohamad Faizal Abdullah, Ahmad Mujahid Ahmad Zaidi, Norazman M Nor, Ariffin Ismail, Mohammed Alias Yusof, Ahmad Humaizi Hilmi. Hypervelocity penetration against mechanical properties of target materials .

		<p>Conference Proceedings, 2018.</p> <p>69. UNN Ali, NM Daud, NM Nor, MA Yusuf, M Othman,. Enhancement in Green Building Technology as to Sustainable Development in Malaysia. The Social Sciences, 2018.Vol 13. Issue 1.page 160-166.</p> <p>70. M Vikneswaran, Muhamad Azani Yahya, Mohammed Alias Yusof, Siti Nor Kamariah Ismail. Emergency field water supply system using natural filtration elements. AIP Conference Proceedings. 2018.</p> <p>71. Norhasliya Mohd Daud Norazman Mohamad Nor, Mohammed Alias Yusof .The physical and mechanical properties of treated and untreated bamboo. February 2018, AIP. Conference Proceedings, 1930(1):020016.</p> <p>72. Khairul Hasni, Kamarudin Mohamad, Faizal Abdullah, Ahmad Mujahid Ahmad Zaidi, Mohammed Alias Yusof. Hypervelocity penetration against mechanical properties of target materials. February 2018, AIP Conference Proceedings 1930 (1):02003.</p> <p>73. Vikneswaran Munikanan Muhamad Azani Yahya Muhamad Azani Yahya, Mohammed Alias Yusof Muhammad Haris Fauzan Radzi. Fine granular of shredded waste tyre for road kerb application as improvised road furniture February 2018, AIP Conference Proceedings 1930(1):020061.</p> <p>74. Umi Nadiah Ali, Norazman Mohamad Nor, Mohammed Alias Yusof. Application of water flowing PVC pipe and EPS foam bead as insulation for wall panel. February 2018AIP Conference Proceedings 1930(1):020011. Conference.</p>
10	International Award/ Recognition	<ol style="list-style-type: none"> 2017 – Distinguish Scientist in Civil Engineering – VIRA Foundation , Chennai, INDIA 2015 Bronze Medal. Blast Resistance Glass Panel. SIFF, South Korea. 2014 Bronze Medal. Blast Resistance Glass Panel. British Innovation Show, London 2010 Honorary Mention Award, Development of Field blast measurement system using NI PXI Hardware, ASEAN Virtual Instrumentation Contest, Singapore.
11.	Local Awards	<ol style="list-style-type: none"> 2017 Gold Medal , Blast resistant laminated glass, International Penang Invention , Innovation and Research Design Platform , UiTM, Pulau Pinang 2017, Bronze Medal, Blast Resistant Concrete Panel. International Penang Invention , Innovation and Research Design Platform ,

		<p>UiTM, Pulau Pinang</p> <ol style="list-style-type: none"> 3. 2017 Excellent Academic Research Award- UPNM 4. 2016 Excellent Academic Research Award- UPNM 5. 2016 Gold Medal, Emergency Backpacking water supply system for military unit. INTEX 16, UNIMAS. 6. 2014 Gold Medal . Blast Resistance Glass Panel , 25th International Invention, Innovation and Technology Exhibition , (ITEX 2014), Kuala Lumpur, Malaysia. 7. 2014 Bronze Medal Crime Prevention Panel , International Expo on Technology and Invention (MTE 2012), Malaysian Association of Research Scientist , Malaysia. 8. 2014 Bronze Medal Sugarcane Bagasse as a Concrete Retarder , International Expo on Technology and Invention (MTE 2012), Malaysian Association of Research Scientist , Malaysia. 9. 2014 Gold Medal. Sugarcane Bagasse as a Concrete Retarder. International Engineering Invention and Exhibition. 10. 2012 Silver Medal, Blast Testing Jig , International Expo on Technology and Invention (MTE 2012), Malaysian Association of Research Scientist , Malaysia. 11. 2012 Silver Medal. Blast Apparatus to cut Medal. International Expo on Technology and Invention (MTE 2012), Malaysian Association of Research Scientist , Malaysia. 12. 2011. Bronze medal. Portable run flat tyre opener. International Invention, Innovation and Technology Exhibition , (ITEX 2014), Kuala Lumpur, Malaysia. 13. 2011. Bronze medal. Portable CFRP Structure. International Invention, Innovation and Technology Exhibition , (ITEX 2014), Kuala Lumpur, Malaysia 14. 2011 Bronze Medal, Blast Resistance Concrete, International Expo on Technology and Invention (MTE 2011), Malaysian Association of Research Scientist , Malaysia. 15. 2011 Bronze Medal, Portable Bridging System . International Exposition of Research and Invention of Institutions of Higher Learning, Institution of Higher Learning, Malaysia. 16. 2011 Silver Medal Foldable Beam using CFRP International Expo on Technology and Invention (MTE 2011), Malaysian Association of Research Scientist , Malaysia. 17. 2011. Silver medal. Development of an increase of 81mm Mortar Projectile. International Invention, Innovation and Technology Exhibition , (ITEX 2011), Kuala Lumpur, Malaysia. 18. 2011. Gold Medal. Central Switch Box Tester. International Invention, Innovation and Technology Exhibition , (ITEX 2011), Kuala Lumpur, Malaysia. 19. 2010 Silver Medal, Blast Resistance Concrete, 21st International Invention, Innovation and Technology Exhibition (ITEX), Ministry of Science, Technology and Innovation, Malaysia. 20. 2009 Silver Medal, Blast Resistance Concrete, International Exposition of Research and Invention of Institutions of Higher Learning, Institution of Higher Learning, Malaysia
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12	Invited Speaker	<p>1. Invited speaker for topic “ Portfolio Management at grand melieum hotel, Kuala lumpur, 2018.</p> <p>2. Invited speaker for topic of “Construction Project Management” at CIDB Convention Centre , Shah Alam, Selangor on 31 October 2017, by Afha Training Sdn Bhd.</p> <p>3. Invited speaker for the topic of “Introduction to Demolition using Explosive “ by Institute of Engineer Malaysia on 17th February 2017 at Wisma IEM, Petaling Jaya.</p> <p>4. 2016 – Invited speaker for topic of “Effective Project Management for Contemporary Practice” at Pearl International Hotel, Kuala Lumpur on 31 March 2016 by Green survival Consultant.</p>																												
13	Invited Facilitator / Trainer	<p>1. 2016 - Cyber Security Project Management Course for Malaysian Arm Forces.</p> <p>2. 2015- Defense System Project Management Course for Malaysian Arm Forces.</p> <p>3. 2014 - Defense System Project Management Course for Malaysian Arm Forces</p>																												
14	Research Consultant	<table border="1"> <thead> <tr> <th>Year</th> <th>Description</th> <th>Organization</th> <th>Amount (RM)</th> </tr> </thead> <tbody> <tr> <td>2012</td> <td>Field blast testing on Concrete</td> <td>Duro Concrete Sdn Bhd</td> <td>10,000</td> </tr> <tr> <td>2012</td> <td>Field blast testing on Glass</td> <td>Secuglass Sdn Bhd</td> <td>10,000</td> </tr> <tr> <td>2013</td> <td>Field blast testing on Glass</td> <td>Aneka Glass Sdn Bhd</td> <td>23,000</td> </tr> <tr> <td>2016</td> <td>Field blast testing on Steel</td> <td>University Malaysia Perlis</td> <td>22,500</td> </tr> <tr> <td>2017</td> <td>High speed data acquisition system</td> <td>Virtual Instrumentation Sdn Bhd</td> <td>10,600</td> </tr> <tr> <td>2017</td> <td>Field blast Testing on soil</td> <td>Virtual Instrumentation Sdn Bhd</td> <td>3,710</td> </tr> </tbody> </table>	Year	Description	Organization	Amount (RM)	2012	Field blast testing on Concrete	Duro Concrete Sdn Bhd	10,000	2012	Field blast testing on Glass	Secuglass Sdn Bhd	10,000	2013	Field blast testing on Glass	Aneka Glass Sdn Bhd	23,000	2016	Field blast testing on Steel	University Malaysia Perlis	22,500	2017	High speed data acquisition system	Virtual Instrumentation Sdn Bhd	10,600	2017	Field blast Testing on soil	Virtual Instrumentation Sdn Bhd	3,710
Year	Description	Organization	Amount (RM)																											
2012	Field blast testing on Concrete	Duro Concrete Sdn Bhd	10,000																											
2012	Field blast testing on Glass	Secuglass Sdn Bhd	10,000																											
2013	Field blast testing on Glass	Aneka Glass Sdn Bhd	23,000																											
2016	Field blast testing on Steel	University Malaysia Perlis	22,500																											
2017	High speed data acquisition system	Virtual Instrumentation Sdn Bhd	10,600																											
2017	Field blast Testing on soil	Virtual Instrumentation Sdn Bhd	3,710																											

		2017	Field blast testing for explosive compaction	Virtual Instrumentation Sdn Bhd	5,000																																																				
		2018	Field blast testing for explosive compaction	Virtual Instrumentation Sdn Bhd	20,000																																																				
15	Professional Interview (Ir) Examiner	<p>2013-2015- Appointed as Second Interviewer for Professional Engineer Exam (Ir) by Institute of Engineer Malaysia.</p> <p>2015- Todate – Appointed as Principal Interviewer for Professional Engineer Exam (Ir) by Institute of Engineer Malaysia.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Name</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>2012</td> <td>Mohd Sufian</td> <td>BLT Development</td> </tr> <tr> <td>2013</td> <td>Hafizu Mustafa</td> <td>EQM Ventures Sdn Bhd</td> </tr> <tr> <td>2015</td> <td>Khairul Amri bin sanusi</td> <td>Tenaga Nasional Berhad</td> </tr> <tr> <td>2015</td> <td>Mohd Firdaus bin Jamaludin</td> <td>Jabatan Kerja Raya</td> </tr> <tr> <td>2016</td> <td>James anak Musa</td> <td>Jabatan Kerja Raya</td> </tr> <tr> <td>2016</td> <td>Mohd Farhan</td> <td>BJP Consultant Sdn Bhd</td> </tr> <tr> <td>2017</td> <td>Mejar Shahnaz</td> <td>Ministry of Defense Malaysia</td> </tr> <tr> <td>2017</td> <td>Ho kah Lun</td> <td>Technip Geoproduction Sdn Bhd</td> </tr> <tr> <td>2017</td> <td>Mohd Azzyarul</td> <td>Jabatan Kerja Raya</td> </tr> <tr> <td>2017</td> <td>Norhaslinda</td> <td>DPI Consult Sdn Bhd</td> </tr> <tr> <td>2017</td> <td>Tan Chee Seng</td> <td>Chong Poh Construction Sdn Bhd</td> </tr> <tr> <td>2017</td> <td>Loo Choo Meng</td> <td>TYLin Sdn Bhd</td> </tr> <tr> <td>2017</td> <td>Chin Siew Choo</td> <td>University Malaysia Pahang</td> </tr> <tr> <td>2018</td> <td>Darrel Chong</td> <td>G&P Geotechnics Sdn Bhd</td> </tr> <tr> <td>2018</td> <td>Normarzidah</td> <td>Jabatan Kerja Raya</td> </tr> <tr> <td>2018</td> <td>Nursyuhada</td> <td>Jabatan Kerja Raya</td> </tr> </tbody> </table>					Year	Name	Organization	2012	Mohd Sufian	BLT Development	2013	Hafizu Mustafa	EQM Ventures Sdn Bhd	2015	Khairul Amri bin sanusi	Tenaga Nasional Berhad	2015	Mohd Firdaus bin Jamaludin	Jabatan Kerja Raya	2016	James anak Musa	Jabatan Kerja Raya	2016	Mohd Farhan	BJP Consultant Sdn Bhd	2017	Mejar Shahnaz	Ministry of Defense Malaysia	2017	Ho kah Lun	Technip Geoproduction Sdn Bhd	2017	Mohd Azzyarul	Jabatan Kerja Raya	2017	Norhaslinda	DPI Consult Sdn Bhd	2017	Tan Chee Seng	Chong Poh Construction Sdn Bhd	2017	Loo Choo Meng	TYLin Sdn Bhd	2017	Chin Siew Choo	University Malaysia Pahang	2018	Darrel Chong	G&P Geotechnics Sdn Bhd	2018	Normarzidah	Jabatan Kerja Raya	2018	Nursyuhada	Jabatan Kerja Raya
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16	Engineer Accreditation Panel (EAC) Panel	Appointed as Engineer Accreditation Panel (EAC) Panel by Board of Engineer Malaysia on 2013. Visited USCI/ IUKL/UTAR/ KUTAR for the accreditation of Civil Engineering Program																																																							
17	PPRN Research Grant Matching Expert Panel	Appointed as a PPRN Research Grant Matching Expert Panel by Ministry of Higher Education on 2015, till to date.																																																							
18	External	Year	Name	Topic	Institution																																																				

	Examiner for PhD	2017	Mr. Aljanabi khalid	Behaviour of self compacting concrete alum sludge with pozzolans materilas	Infrastructure University Kuala Lumpur
19	External Examiner for Masters	Year	Name	Topic	Institution
		2015	Khairunisa binti mohd hairuddin	A novel Elastomer isolator with engine mounting concept for building	Universiti Teknologi Malaysia
		2015	Mohammad Nabi Newas Khan	Physical and Chemical effects of rice husk on the properties of mortar	Universiti Kebangsaan Malaysia
		2015	Fatin Nabilah binti Tajul Arifin	Kesan penambahan serbuk Boron karbida ke atas sifat fizik, mekanik konkrit	Universiti Kebangsaan Malaysia
		2016	Noor Azim bin Mohd Razi	Kelakuan terma konkrit mampan rintangan api pada suhu kebakaran terowong	Universiti Kebangsaan Malaysia
		2016	Mohd Shazwan	Behavior of Ferrocement Reinforced with Polypropylene Fiber Subjected to Flexural and Torsion.	Universiti Tenaga Nasional
		2016	Nursima	Evaluation of structural stability of short create tunnel lining	Universiti Tenaga Nasional
		2017	Go Chee Siang	Thermal and experimental modelling of Mass concrete using granite aggregate	Infrastructure University Kuala Lumpur
		2017	Mohammad Abdalameer Hussin	Investigation the failure of RC steeped beam and developing	University Teknologi Petronas

				of appropriate strengthening method		
18	External Examiner for Master Thesis	Appointed as External Examiner for Master of Construction Law course by Infrastructure University Kuala Lumpur (IUKL) , from 2017 – 2019.				
19.	Internal Examiner for Master Thesis	Year	Student name	Topic		
		2014	Kapt Azrul Affandi Mustafa	Analysis design of single span military bridge		
		2014	Norhisham bin Bahaman	Real time monitoring of rainfall for slopes failure within Jelapang area.		
		2016	Norita binti Redzuan	The effectiveness of sugarcane baggase as natural admixture to prolong concrete setting time		
		2018	Alia Syafiqah Binti Abdul Hamed	Properties and performance of water treatment sludge as clay brick material.		
20	Research Grant	No	Title	List of Researchers • Principal • Members	Grant Year	Source Amount
		1	Kajian Struktur Penahan Letupan di Depoh Peluru Angkatan Tentera Malaysia dan juga Logi Penapis Gas Petronas Kertih Terengganu	Dr. Mohammed Alias,(P) Kol Norazman, Lt Kol Ariffin, Dr. Risby	2009	UPNM/ 10,000
		2	Mitigation of delays in housing project	Dr. Mohammed Alias,(M), Noraziah Mohd, Adi Irfan, Mazlam	2010	UKM/ RM100,00.00
		3	Study on Usage of Exlusive to Produce Water Jet Pressure	Dr. Mohammed Alias,(m)	2011	FRGS/RM 50,000

			Exceeding 1000 MPa	Kol Norazman, Lt Kol Ariffin, Dr. Risby , Ahmad humaizi, Prof Dr. Megat		
		4	Investigation Of The Hydrodynamic Effect Of Waterjet With Pressure Exceeding 1 Gpa Cutting Through Solid Object	Dr. Mohammed Alias,(P) Kol Norazman, Lt Kol Ariffin, Dr. Risby , Ahmad humaizi, Prof Dr. Megat	2011	FRGS/RM 50,000
		5	A Study of Blast-Wave Propagations from Free Field and Underground High Explosive (HE) Detonation	Dr. Mohammed Alias,(M) Kol Norazman, Lt Kol Ariffin, Dr. Risby , Ahmad humaizi	2012	FRGS / 48,500
		6	Field blast testing measurement technique for industrial application	Dr. Mohammed Alias,(P) Kol Norazman, Lt Kol Ariffin, Azani	2013	KTP / RM 171,000
		7	Improving Electromagnetic Interferences Shielding Effectiveness by	Dr. Mohammed Alias,(M) Chew Seiw Peng	2013	Rags/ RM 28,850

			using Non-Metal Materials in Building Construction			
		8	Determine the Familial/ Friend Aspect of Young Motorcyclists Risky Riding Behavior	Dr. Mohammed Alias,(M) Ng Choy Peng	2013	Race / RM 48,800
		9	Sugar Cane bagase as a retarder	Dr. Mohammed Alias,(M) Azani, Norazman, Nortita	2013	Race / RM 50,000
		10	Performance of armour vehicle subjected to shock	Dr. Mohammed Alias,(M) Kol Norazman, Lt Kol Ariffin, Azani, Dr. Risby	2014	LRGS/ RM1, 481, 287,00
		11	Determination of plastic explosive equivalent to commercial explosive for military application	Dr. Mohammed Alias, (P) Kol Norazman, Lt Kol Ariffin, Azani, Dr. Risby	2015	FRGS/RM 143,200.00
		12	Armored plate deformation characteristic during hydrodynamic penetration of shape charge.	Dr. Mohammed Alias, (M) Khairul hasni, Dr Mujahid Kol. Norazman, Lt Kol Ariffin,	2015	UPNM/ RM 15,000
		13	Usage of Macro	Dr.	2016	UPNM/RM

			Synthetic fibers in concrete for blast loading	Mohammed Alias, (M), Muhamad Azani, Norazman, Arifin, Vikneswaran		20,000										
		14	Characteristic of powder surpassing of 160,000 Ton press using explosive	Dr. Mohammed Alias, (M), Muhamad Azani, Norazman, Arifin, Vikneswaran	2016	FRGS/ UniMAP/ RM 126,200										
		15	Designing of field blast measurement system using LABVIEW	Dr. Mohammed Alias, (P), Muhamad Azani, Norazman, Arifin, Vikneswaran	2017	Industri / RM 10,600										
21	Journal Reviver	<ol style="list-style-type: none"> 1. Journal Reviewer for Institution of Engineer Malaysia for year 2008. 2. Journal Pertanika UPM 2009 - Till todote. 3. Journal Reviewer for Journal for Advance in Material Science and Engineering, 2013. 4. Journal Reviewer for Journal of Asean Science Research, 2014. 5. Journal Reviewer for International Journal for Advance in Concrete Construction, Korea. 2017. 6. Journal Reviewer for British Journal of Applied Science and Technology , 2017. 														
22	Post Graduate Student supervision	<table border="1"> <thead> <tr> <th>No</th> <th>Student Name</th> <th>PhD/ MSc</th> <th>Field</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Nur Farhana Najwa</td> <td>MSc</td> <td>Blast resistant glass</td> <td>Completed</td> </tr> </tbody> </table>					No	Student Name	PhD/ MSc	Field	Status	1	Nur Farhana Najwa	MSc	Blast resistant glass	Completed
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23	Pattern Granted	A Blast Resistance Concrete Panel –2016																																													
24	Books	<ol style="list-style-type: none"> 1. Blast Resistant Materials : Concrete and Glass - 2018 2. Travelogue Cendekia Sedekat di UPNM- 2017 																																													
25.	Industrial Collaboration	<ol style="list-style-type: none"> 1. MOU sign with Secuglass Sdn Bhd – Blast Resistant Glass Manufacturer in Malaysia 2. MOA sign with Virtual Instrumentation Sdn Bhd, 																																													
26	Citation	117																																													
	H index	6																																													
	I index	4																																													
27	Teaching subjects	<ol style="list-style-type: none"> 1 Construction Law and Contract 2 Civil Engineering materials and Technology 3. Construction Project Management 4. Engineer in society 5. Capstone project – Infrastructure Design 6. Research methodology 7. Final Year Project . 8. Concrete Technology 9. Structure subjected to blast 																																													