
Curriculum Vitae

Name: Ir. Dr. Prashobh Karunakaran

List of Research:

Internal Grant

1. Extension of water supply for Kpg Abit. Researchers: Dr. Prashobh Karunakaran, Clement Sabang, Lawrence Muda Ak. Nyomui. UCTS/RESEARCH/1/2021/06).
2. Water Supply for Kampung Abit, Balai Ringin. Researchers: Dr. Ir. Prashobh Karunakaran, Prof. Ir. Dr. Mohd. Shahril Osman, Wong Chee Chung, DR. Lee Man Djun, Dr. Augustine Chioma Affan. UCTS/Research/4/2018/21).
3. Development of a Micro-Hydro Generator of a Rural Area in Sarawak. UCTS/Research/4/2019/07).
4. To study the feasibility of High Voltage Electric Transmission Using Bare Copper Cable Suspended Within Carbon Steel Pipes Suspended with Ceramic Insulators. Researchers: Dr, Ir. Prashobh Karunakaran (Project Leader), Professor Mohamad Shahril, Dr. Lee Man Djun. Researchers Grant name: UCTS University Research Grant, Ref. UCTS/RESEARCH/4/2017/14.
5. A device to provide safety for high voltage switchgear switching personnel. Researchers: Dr. Ir. Prashobh Karunakaran (Principle Investigator), Professor Ir. Dr. Mohd Shahril bin Osman, Man Djun Lee. Grant name: University Research Grant, UCTS, Ref: UCTS/Research/2/20182/2018/12).

6. Prototype Development of Modular Designed Lower-Limb Pediatric Robot for Exercise and Rehabilitation. Researchers: Associate Professor Dr. Muhammad Firdaus Abong Abdullah (Principle Investigator), Dr. Ir. Prashobh Karunakaran, Grant name: University Research Grant, Grant ID: UCTS/Research/4/2017/03).
7. Design and Development of a Wave Energy Conversion (WEC) Device. Researchers: Dr. Lee Man Djun (Project Leader), Dr. Prashobh Karunakaran, Prof. Ir. Dr. Mohd Shahril Osman. Grant name: UCTS University Research Grant, Ref. UCTS/RESEARCH/4/2017/02. Grant Period: 1/12/2017-30/1/2019 **Role: Co-investigator.**
8. Design and Development of Micro Hydro Turbine for Green Energy Extraction. Researchers: Ngu Heng Jong (Principle Investigator), Prof. Ir. Dr. Mohd. Shahril Osman, Ir. Dr. Prashobh Karunakaran, Dr. Lee Man Djun, Dennis Ting Yuk Shin. UCTS University Research Grant, Ref. UCTS/RESEARCH/4/2018/16). **Role: Co-investigator.**

List of Consultancy:

List of Publications:

JOURNALS PAPERS PUBLISHED

1. Prashobh Karunakaran, M. Shahril Osman; Prashanth Karunakaran; Shanthi Karunakaran, Arjun Karunakaran, Clement Sabang, Thomas S., Andy Edwin. (2021, Sep); Prototype Archimedes Screw Microhydro on a River without Head. IEEE Explore. ISBN 978–80–7043–987–6. ISSN 1803–7232.
2. Prashobh Karunakaran, Prashanth Karunakaran, Shanthi Karunakaran, Arjun Karunakaran. (2021). A Simplified Enumeration of Atomic Physics and Universe Formation Discovered so Far. IAR Journal of Engineering and Tehnology, ISSN print: 2708-5155, ISSN online: 2708-5163, Volume 2, Issue 5. p18-21.

3. Prashobh Karunakaran; M. Shahril Osman; Imelda Justine; Prashanth Karunakaran; Shanthi Karunakaran; Arjun Karunakaran. Ground Rod Interlinks with Iron versus Copper. (2021). Journal of The Institution of Engineers (India): Series B, 102(5), 957-967, Springer: ISSN 2250-2114, ISSN 2250-2106. DOI 10.1007/s40031-021-00590-w.
4. Prashobh Karunakaran, M. Shahril Osman, Lawrence M Nyomui, Clement Langet Sabang, Prashanth Karunakaran, Shanthi Karunakaran, Arjun Karunakaran, Dylan Greve, Timothy Jesse, Abd. Hakim. (2021). Water Supply System for a Rural Village in Malaysia. Journal of Convergence in Technology (AJCT), ISSN NO: 2350-1146 I.F-5.11, 6(3), 55-64. <https://doi.org/10.33130/AJCT.2020v06i03.010>.
5. Prashobh Karunakaran; M. Shahril Osman; Lawrence M Nyomui; Clement Langet Sabang; Prashanth Karunakaran; Shanthi Karunakaran; Arjun Karunakaran; Dylan Greve; Timothy Jesse. (04 August 2021). A Water Supply System for Abit Village of Malaysia. IEEE Xplore. Electronic ISBN:978-1-7281-8583-5, CD:978-1-7281-8581-1, USB ISBN:978-1-7281-8582-8, Print on Demand(PoD) ISBN:978-1-7281-8584-2, DOI: 10.1109/CONIT51480.2021.9498575.
6. Man Djun Lee; Pui San Lee; Richard Chiew Hock Chiong; Prashobh Karunakaran; Heng Jong Ngu (01 January 2021). Design and Development of a Small-Scale Mechanical Energy Conversion Device. IEEE Xplore. Electronic ISBN:978-1-7281-9744-9, CD:978-1-7281-9743-2, Print on Demand(PoD) ISBN:978-1-7281-9745-6, INSPEC Accession Number: 20326765, DOI: 10.1109/INOCON50539.2020.9298356.
7. Man Djun Lee; Pui San Lee; Prashobh Karunakaran (15 February 2021). Design and Development of a Small-Scale Archimedes Screw Turbine for Sarawak Rural Development, IEEE Xplore. Electronic ISBN:978-1-6654-0494-5, Print on Demand(PoD) ISBN:978-1-6654-0495-2, USB ISBN:978-1-6654-0493-8, INSPEC Accession Number: 20353709, INSPEC Accession Number: 20353709, DOI: 10.1109/ICPES51309.2020.9349659.

8. Vayalooran Karuppana, Prashobh Karunakaran, Sung Chee Cheng, Auriel Richard. (2021). HV Power Transmission between Sarawak and Peninsular Malaysia by Suspending Wires Within Oil and Gas Pipes. *Borneo Journal of Sciences & Technology*, Volume (3), 2018, © UCTS Publishers, Issue (1), 15-20, DOI: 10.3570/bjost.202.3.1-03, e-ISSN:2672-7439
9. Prashobh Karunakaran, M. Shahril Osman, Prashanth Karunakaran, Shanthi Karunakaran, Arjun Karunakaran, Man Djun Lee, Kwong Hieng Ting, Alexon John (2020). HV Switchgear Switching System. *Asian Journal of Convergence in Technology (AJCT)*, ISSN NO: 2350-1146 I.F-5.11, 6(3), 77-85, DOI: <https://doi.org/10.33130/AJCT.2020v06i03.012>.
10. Prashobh Karunakaran, Prashanth Karunakaran, Shanthi Karunakaran, Arjun Karunakaran, Man Djun Lee, M. Shahril Osman, Muhd Dina Fadhilah, Karuppana V, Sung Chee Cheng. (2020). Proving that Eddy Current is the Main Heat Generator for a Current Carrying Cable Suspended in a Steel Pipe. *Asian Journal of Convergence in Technology (AJCT)*, ISSN NO: 2350-1146 I.F-5.11, 6(3), 55-64. <https://doi.org/10.33130/AJCT.2020v06i03.010>.
11. Karunakaran, Prashobh; Osman, M. S.; Karuppana, V.; Cheng, S. C.; Lee, M.D.; John, A.; Hieng, T. K. (01 January 2021). A High Voltage Switchgear Switching System. *IEEE Xplore*, Electronic ISBN:978-1-7281-9744-9, CD:978-1-7281-9743-2, Print on Demand(PoD) ISBN:978-1-7281-9745-6, INSPEC Accession Number: 20326834, DOI: 10.1109/INOCON50539.2020.9298368.
12. Karunakaran, P., Osman, M. S., Karuppana, V., Cheng, S. C., Lee, M. D., Fadhilah, M. D., & Lau, A. K. S. (01 January 2021). Eddy Current versus Joule Heating Effects for a Cable Suspended in an Iron Pipe. *IEEE Explore*. Electronic ISBN:978-1-7281-9744-9, CD:978-1-7281-9743-2, Print on Demand(PoD) ISBN:978-1-7281-9745-6. IEEE, INSPEC Accession Number: 20334139, DOI: 10.1109/INOCON50539.2020.9298438.

13. Karunakaran, Prashobh; Osman, M. S., Karuppanna, V., Cheng, S. C., Djun, L. M., John, A., & Hieng, T. K. (01 September 2020). Design and Building a High Voltage Switchgear Safety System. IEEE Xplore. Electronic ISBN:978-1-7281-4988-2, CD:978-1-7281-4987-5, Print on Demand(PoD) ISBN:978-1-7281-4989-9, INSPEC Accession Number: 19914247, DOI: 10.1109/ICCSP48568.2020.9182459.
14. Karunakaran, Prashobh; Osman, M. S.; Karuppanna, V.; Cheng, S. C.; Lee, M. D.; Richard, A.; Lau, A. K. S. (03 August 2020). Electricity Transmission Under South China Sea by Suspending Cables Within Pipes. IEEE Xplore. Electronic ISBN:978-1-7281-6221-8, CD:978-1-7281-6220-1, Print on Demand(PoD) ISBN:978-1-7281-6222-5, INSPEC Accession Number: 19887489, DOI: 10.1109/INCET49848.2020.9154119.
15. Sung Chee Cheng, Prashobh Karunakaran, Vayalooran Karuppanna, Auriel Richard. (2020) Electricity Transmission across South China Sea by Suspending Cables within Oil and Gas Pipes. Borneo Journal of Science & Technology, Volume (2), Issue (2), 27-33, DOI: 10.3570/bjost.2020.2.2-05, e-ISSN: 2672-7439, UCTS Publisher.
16. Karunakaran Prashobh; Lee MD; Karuppan V. (2020). Politics in the Age of Advanced Technology. Arts Social Sci J, Belgium, ISSN: 2151-6200, Vol 11. Issue 1, 1. DOI: 10.37421/assj.2020.11.001
17. Prashobh Karunakaran, M. Shahril Osman, Karuppanna V., Sung Chee Cheng, Man Djun Lee. (2019) Optimization of a Hard Disk Factory. International Journal of Mechanical Engineering and Technology, Vol. 10, Issue 10, 217-228, ISSN print: 0976-6340, ISSN online: 0976-6359, DOI: 10.34218/IJMET.10.10.2019.020.
18. Lee, M.; Karunakaran, Prashobh; Djubair, R. ; & Ngu, H. J. (2019). Modelling Production Performance of Small-Scale Production Plant, International Journal of Advanced Engineering, Management and Science, 4(6), DOI:10.22161/IJAEMS.4.6.9, Corpus ID: 158960327

19. Prashobh Karunakaran; Mohd Shahril Osman; Alvin K.S. Lau; Man Djun Lee; Pradeep Kumar (06 September 2018). Underwater Electricity Transmission using Electric Cables Suspended within Carbon Steel Pipes, IEEE Xplore, Electronic ISBN:978-1-5386-3243-7, Print ISBN:978-1-5386-3242-0, CD:978-1-5386-3240-6, DVD ISBN:978-1-5386-3241-3, Print on Demand(PoD) ISBN:978-1-5386-3244-4, INSPEC Accession Number: 18076065, DOI: 10.1109/ICECDS.2017.8389606.

20. Prashobh Karunakaran; Mohammad Shahril Osman; Ian Rino Anak Boniface; Atif Norzan Shah (2018). Development of a system to improve safety in switching of high voltage circuit breakers, IEEE Xplore, Electronic ISBN:978-1-5386-1887-5, Print on Demand(PoD) ISBN:978-1-5386-1888-2, INSPEC Accession Number: 17858998, DOI: 10.1109/ICECDS.2017.8389606.

21. Lee, M. D.; Dayou, S.; Karunakaran, Prashohh. (2018). Determinants of a Pre-Treatment Model in Achieving Economic and Environmental Sustainability in Membrane Desalination. Jurnal Kejuruteraan: 30(2) 2018: 193-199, [http://dx.doi.org/10.17576/jkukm-2018-30\(2\)](http://dx.doi.org/10.17576/jkukm-2018-30(2)).