

RABIEAHTUL ABU BAKAR (Sr, Ts, Gs, Dr)

Senior Lecturer, SUG, (FSPU)

Centre of Studies for Surveying Science and Geomatics
Faculty of Architecture, Planning and Surveying
Universiti Teknologi MARA,
40450 Shah Alam,
Selangor, Malaysia.

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rabieahtul@uitm.edu.my



Areas of Expertise

Disaster Risk Reduction Management (DRRM), Resilient Communities-Rakan NADMA, Geospatial Technology, GNSS for Geodynamics, GIS for Geohazard Mapping

<https://uitm.academia.edu/RabieahtulAbuBakar>

<https://www.researchgate.net/profile/Rabieahtul-Abu-Bakar/publications>

<https://publons.com/researcher/2289422/rabieahtul-abu-bakar/>

<https://scholar.google.com/citations?hl=en&authuser=1&user=cPgWVvoAAAAJ>

<https://ieeexplore.ieee.org/document/6723629>

Personal Information

Rabieahtul Abu Bakar

Centre of Studies for Surveying Science and Geomatics
Faculty of Architecture, Planning and Surveying

Academic Qualifications

PhD in **Geological Hazard**, 2020, SEADPRI, National University of Malaysia (UKM)

Master in Geomatics Engineering, 2006, Universiti of Teknologi Malaysia (UTM)

Bachelor of Engineering (Geomatics), 2002, Universiti of Teknologi Malaysia (UTM)

Certificate in Geo-Information Science and Earth Observation, **Multi-Hazard Risk Assessment**, 2011
(ITC, University of Twente in Enschede, The Netherlands)

Professional Members

1. Royal Institution of Surveyors Malaysia (RISM), Member, (M4001 since 2008)
2. IEEE, Member (2014-Current 2022)
IEEE Malaysian Chapter; IEEE Young Professional (YP)
IEEE Consultants Network; IEEE Women in Engineering (WIE)
3. Geological Society Malaysia (GSM)
4. Professional Technologist of Malaysian Board of Technologist (MBOT) (17.07.2021)

5. International Society for Digital Earth (ISDE)
6. Institution of Geospatial and Remote Sensing Malaysia (IGRSM), Lifetime Professional Member(ML511)
7. Royal Institute of Chartered Surveyors, RICS (2021-2022)

Teaching and Learning

1. Master: MMJD1243: Geohazard Information for Disaster Risk Management, June-July 2021, Disaster Preparedness and Prevention Center (DPPC), Malaysia-Japan International Institute of Technology Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia, Lecture
2. Master: MMJD 1133: Control Measures and Mitigation in Disaster Risk Reduction, 16th -27th Nov 2020, Disaster Preparedness and Prevention Center (DPPC), Malaysia-Japan International Institute of Technology Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia, Lecture
3. Master: MRSA 1053: Executive Master for Emergency Response Planning And Communication (EMOSH), 4th-5th May 2019, KLIA Training & Research Centre Sdn Bhd, Bandar Baru Bangi, Selangor, Lecture
4. Bachelor: BMEM 1152: Land Surveying, for Land Administration and Evaluation Undergraduates, 2007/2008 (Semester 2), University of Malaya (UM), Kuala Lumpur, Lecture
5. Bachelor: VAB 1053: Geomatics, Global Positioning System (GNSS) and Land Surveying for Civil Engineering, 2007/2008 (Semester 1), Universiti Teknologi Petronas (UTP), Perak

Student Supervision

(N/A)

Publications

Policy Papers

National Guideline Development Planning for Disaster Resilient City, 2018. Federal Department for Town and Country Planning (PLANMalaysia).

Review of the National Slope Master Plan 2009-2023, 2017. Slope Engineering Branch, Public Work Department, Ministry of Works Malaysia.

Research Papers

Che Siti Noor Koh Poh Lee, **Rabiehtul Abu Bakar**, Sarah Aziz, Mohd. Raihan Taha (2022).Pengurusan risiko bencana tanah runtuh di Semenanjung Malaysia (Disaster risk management of landslides in Peninsular Malaysia) *Bulletin of the Geological Society of Malaysia, Volume 73, May 2022, pp. 23 – 33, DOI: <https://doi.org/10.7186/bgsm73202203>*

Afnindar Fakhurrozi¹, Anggun Mayang Sari¹, Arifan Jaya Syahbana, Dwi Sarah, Bambang Setiadi, Mudrik Rahmawan Daryono, **Rabiehtul Abu Bakar**, and Jian Cheng Lee (2021). *Mapping seismic exposure of building based surface peak ground acceleration: initial seismic risk assessment in Bandung Basin,*

West Java. E3S Web of Conferences **331**, 07002 (2021).
<https://doi.org/10.1051/e3sconf/202133107002> ICDMM 2021.

Anggun Mayang Sari, Afrindar Fakhurrozi, Arifan Jaya Syahbana, Dwi Sarah, Bambang Setiadi, Mudrik Rahmawan Daryono¹, **Rabieahdul Abu Bakar**, and Jian Cheng Lee. (2021). *Seismic hazard on West Bandung district using non-linear earthquake response analysis*. E3S Web of Conferences 331, 07003 (2021) <https://doi.org/10.1051/e3sconf/202133107003> ICDMM 2021

Sari, A. M., Fakhurrozi, A., Syahbana, A. J., Sarah, D., Daryono, M. R., Setiadi, B., **Bakar, R. A.**, & Lee, J. C. (2021). Seismic wave propagation in Bandung Basin, West Java. *Science of Tsunami Hazards*, 40(4), 238-254. ISSN 8755-6839. *Science Of Tsunami Hazards*. Journal of Tsunami Society International. Volume 40. Number 4 2021.

Abu Bakar, R., Jamaluddin, T.A., Ramli, Z., Mohamad, Z. (2016). Seismically Induce Recent Reactivated Debris Flow in Sabah: A Cascading Hazard. In Proceeding: 2016 International Debris-Flow Workshop (ANDF Workshop) and 6th International Workshop of Multimodal Sediment Disasters, Disaster Prevention Research Institute, Kyoto University on November 29 - December 02, 2016 in Kyoto, Japan.

Razak, K.A., Othman, S.H., Dziauddin, R.A., Kamarudin, KH., Che Hasan, R., Page, S., Abdul Latiff, L., Mad Kaida, H., Fathi, M.S., Mahrin, M.N., **Abu Bakar, R.**, Mohamad, Z. (2017). Community-based Disaster Informatics for Building Resilience Cities. In: Proceeding of Forum on Urban Resilience to Climate Change and Disaster Reduction Management Strategies, Illocos Norte, the Philippines, 04-08 December 2017.

Razak, K.A., **Abu Bakar, R.** (2017). Knowledge-based Action for Disaster Risk Reduction in Malaysia: A Transdisciplinary Approach. In: Proceeding of International Workshop Towards Building Regional Platform for Disaster Risk Reduction in Asia, Institute of Islamic Understanding Malaysia, KL, 02-03 May 2017

Samsuri, N., **Abu Bakar, R.**, Unjah, T. (2017). *Flash Flood Impact in Kuala Lumpur: Approach Review and Way Forward*. *International Journal of the Malay World and Civilisation* 6(Special Issue 1), 2018: 69 – 76 (<https://doi.org/10.17576/jatma-2018-06SI1-10>)

Razak, K.A., Mohamad Z., Abd Razak, R., Ramli, Z., Mat Yusoff, H.H., **Abu Bakar, R.**, (2016). Characterizing debris flow in a tectonically active region in Malaysia: An integrated advanced LiDAR approach. In: 2016 International Debris Flow Workshop (ANDF Workshop) and 6th International Workshop of Multimodal Sediment Disasters, Kyoto, Japan, 29 Nov - 02 Dec 2016.

Abu Bakar, R., Jamaluddin, T.A., Ramli, Z., Mohamad, Z., and Tongkul, F., (2016). Remotely Sensed Geospatial Analysis Towards Disaster Preparedness: A Case Study in Malaysia Tectonically Active Earthquake Zone, Ranau, Sabah (8003). In: FIG Working Week 2016: Recovery from Disaster, Christchurch, New Zealand, May 2–6, 2016

Razak, K.A., Mohamad Z., Abd Razak, R., Ramli, Z., **Abu Bakar, R.**, (2016). Advanced geospatial data for cascading geo- hazard and disaster risk assessment: A case study of 2015 earthquakes in Sabah. In: FIG working week 2016: Recovery from disaster, Christchurch, New Zealand, 02-06 May 2016.

Mustaffa Kamal Shuib, Mohammad Abdul Manap, Felix Tongkul, Ismail Bin Abd Rahim, Tajul Anuar Jamaludin, Noraini Surip, **Rabieahdul Abu Bakar**, Mohd Rozaidi Che Abas, Roziah Che Musa, & Zahid Ahmad. (2015). Active Faults in Peninsular Malaysia with Emphasis on Active Geomorphic Features of Bukit Tinggi Region. *Malaysian Journal of Geosciences*. Journal Homepage: <http://www.razipublishing.com/journals/malaysian-journal-of-geosciences-mjg/> Active Faults In Peninsular Malaysia with Emphasis on Active Geomorphic Features of Bukit Tinggi

Razak, K.A., Abd Latiff, Z., Che Hasan, R., Kamaruddin, K.H., **Abu Bakar, R.**, (Eds) (2015). *Slope Hazard and Risk*, JMG-PBRC Publication Series 1, UTM Razak School of Engineering and Advanced Technology, UTM Kuala Lumpur, ISBN 978- 967- 11814-7-8, 56 p.

Razak, K.A., Ibrahim, M. Z., Abd. Manap, M., Ahmad, A., Ramli, Z., Tuan Mohamed, T. R., Rosle, Q. A., Mohamad, Z., **Abu Bakar, R.**, (2015). *Modern Geospatial Technology for Geoheritage and Geobiodiversity*, Regional Geoheritage Conference 2015, 02- 05 November 2015, Langkawi.

Abu Bakar, R., Jamaluddin, T. A., Razak, K. A., Ramli, Z., Mohamad, Z., Tongkul, F., Lingi, J. (2015). *Geospatial-based Analysis for Supporting Ecosystem-based Disaster Risk Reduction: A Case Study of Ranau 6.0 Mw Earthquake*. GeoSmart Asia 2015, 29 Sep -1 Oct 2015, Kuala Lumpur.

Mohd Lehan, F. A., Razak, K. A., **Abu Bakar, R.**, Mohamad, Z. (2015). *Geospatial-derived Disaster Business Continuity Planning: Status and Challenges in Malaysia*. GeoSmart Asia 2015, 29 Sep -1 Oct KL

Razak, K. A., Mohamad, Z., Ramli, Z., **Abu Bakar, R.**, Roslee, R., Abd Latif, Z., Mohamed, Z. (2015). *An Integrated Multi- Hazard Risk Assessment: Outlining An Emerging Field of Research and Practice in Malaysia*. In: Proceeding of the 4th International Conference on Slopes, Malaysia 2015, 14-16 September 2015, ISBN 978-967-13627-0-9, Slope Engineering Branch Public Work Department Malaysia 2015, Kuala Lumpur, 193-204.

Abu Bakar, R., Razak, K. A., Jamaluddin, T. A., Ramli, Z., Lingi, J. (2015). *Multisensory Geospatial Disaster Mapping: A Case Study of Earthquakes in Sabah*. Malaysia Journal of Remote Sensing & GIS vol. 4(2), Special Issue ISMHR2015, ISSN 1511-7049, Kuala Lumpur, 110-126.

Razak, K. A., Mohamad, Z., Ibrahim M.Z., Rosle, Q.A., Abd Wahab, H., **Abu Bakar R.**, Wan Mohd Akib, W.A.A. (2015). *Geospatializing the Klang Gate Quartz Ridge in Malaysia: A technological perspective*. In: Geophysical Research Abstracts 17 (2015) EGU2015-8368, European Geosciences Union General Assembly 12-17 April 2015, Vienna. Austria.

Abu Bakar, R., Razak, K. A., Jamaluddin, T. A., Ramli, Z., Lingi, J. (2015). Multisensory Geospatial Disaster Mapping: A Case Study of Earthquakes in Sabah. Malaysia Journal of Remote Sensing & GIS vol. 4(2), Special Issue ISMHR2015, ISSN 1511-7049, Kuala Lumpur, 110-126.

Razak, K.A., **Abu Bakar, R.**, Mohamad, Z., Ramli, Z., Kamarudin, K.H., A New Dimension of Participatory GIS in Disaster Management. In: Proceeding of ASEAN Forum on ICT for Sustainable Rural Development and Knowledge Cross- Fertilization 2015, 24-27 May 2015, Kuala Lumpur.

Razak, K.A., Abd Latiff, Z., Che Hasan, R., Kamaruddin, K.H., **Abu Bakar, R.**, (Eds) (2015). *Slope Hazard and Risk*, JMG-PBRC Publication Series 1, UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia, Kuala Lumpur, ISBN 978-967-11814-7-8, 56 p.

Rahman, M.Z.A, Bakar, M.A.A., Rasib, A.W., T.K.Pang, K.A. Razak, Lehan, F.A.M., Yusof, H.H.M. **Bakar, R.A.**, Latif, Z.A. (2014). *Terrestrial laser scanning as a method for individual tree measurement: framework and challenges in tropical rainforest*. In: Proceeding of the National Conference on Royal Belum 2014, 09-10 December 2014, Gerik, Perak.

Mohd Lehan, N.F.A., **Abu Bakar, R.**, Razak, K.A. (2014). *Weathering satellite system in Royal Belum: A Methodological Framework & Challenges*. In: Proceeding of the National Conference on Royal Belum 2014, 09-10 Dec 2014, Gerik, Perak.

- Abu Bakar, R.**, Mohd Lehan, N.F.A., Razak, K.A. (2014). *Space Technology in The Royal Belum: Bridging the Tranquility for Future Geo-Sustainability*. National Conference of Royal Belum at Banding Lakeside Inn, Gerik, Perak, Malaysia. In: Proceeding of the National Conference on Royal Belum 2014, 09-10 December 2014, Gerik, Perak
- Razak, K.A., Goh, R.D., Jamaludin, S., **Abu Bakar, R.**, (2014). *Multi sensor active remotely sensed data for landslide geomorphology characterization*. IEEE Workshop on Geoscience and Remote Sensing 2014, 20 November 2014, IWGRS2014, STRIDE, Kajang Selangor. IEEE GRSS Malaysia, 6 pp.
- Razak, K.A., Che Hasan, R., Aitin, A., Sheng, L.C., Mohamed, Z., A'zad, Q., **Abu Bakar, R.** (2014). *Hyperspectral resolution of ground based remote sensing for natural limestone characterization: A critical input for rock slope hazard assessment in the tropics*. 35th Asian Conf. on Remote Sensing, 27-31 Oct 2014, Nay Pyi Taw, Myanmar.
- Abu Bakar, R.**, Jamaluddin, T.A., Abdul Rahman, M.Z., Razak, K.A. (2014). *Tectonic geomorphometry from remote sensing: A case study in Kundasang Sabah, Seismically Active Zone in Malaysia*. 35th Asian Conference on Remote Sensing, 27-31 October 2014, Nay Pyi Taw, Myanmar.
- Razak, K.A., Mohamed, Z., Che Hasan, R., Aitin, A., Sheng, L.C., **Abu Bakar, R.**, Wan Mohd Akib, W.A.A., (2014). *Multi sensor lidar for hillslope geomorphology mapping: A step forward to geospatializing natural disaster in Malaysia*. 7th AUN/SEED-Net Geological Engineering Conference (AGEC) and 2nd AUN/SEED-Net Natural Disaster Conference (ANDC), 29-30 September 2014. University of Yangon, Yangon, Myanmar.
- Razak, K.A., Mohamed, Z., Ramli, Z., **Abu Bakar, R.** (2014). *Towards disaster resilient community in rural Malaysia: Status and challenges*. 5th International Conference and Field Study in Malaysia, Rural Research & Planning Group, 26-28 August 2014. Bangi Selangor.
- Razak, K.A., Che Hasan, R., Abbas, M.A., Chong Luh, L., Chor Sheng, L., **Abu Bakar, R.**, Majid, Z., Jamaludin, S., Wan Mohd Akib, W.A.A. (2014). *Topographic laser scanning of landslide geomorphology system: Some practical and critical issues*. In: FIG Congress 2014: Engaging the Challenges, Enhancing the Relevance: Kuala Lumpur, Malaysia. 16-21 June 2014.
- Abu Bakar, R.**, Jamaluddin, T.A., (2013). *Understanding Seismotectonic In Mega Urban: An Intergrated Approach* International Conference: Challenges of Extended Mega Urban Region: The Changing Face of South East Asia and the World 19-21 November 2013, Putrajaya, Malaysia.
- Razak, K., Hasan, R.C., Abbas, M.A., Luh, L.C., Sheng, L.C., **Abu Bakar, R.**, Majid, Z., Wan Mohd Akib, W.A.A., (2013). *Topographic laser scanning of landslide geomorphology system: Some practical and critical issues*. XXV FIG International Congress 16-21 June 2014 Kuala Lumpur, Malaysia (presented: 6939)
- Abu Bakar, R.**, Jamaluddin, T. A., (2013). *Towards Understanding of the Seismo-Tectonic Processes from Space*. In Proceeding of the Seminar on Advanced Active Remote Sensing; Theme: Managing effectively the Natural Hazards, Disasters, Risky, Infrastructure, Natural Resources & Earth Environ. in M'sia 11-13 June, UTM, KL.
- Abu Bakar, R.**, Jamaluddin, T.A., Mohd Omar, K., Razak, K.A. (2013). *Geodynamic activity of Malaysia: Insight from Space-based technology and knowledge driven approach*. In: Proceedings of the IEEE International Geoscience and Remote Sensing Symposium 21-26 July 2013, Melbourne, Australia.(Presented)
- Razak, K.A., Bucksh, A., Straatsma, M., Van Westen, C.J., **Abu Bakar, R.**, De Jong, S.(2013). *High density airborne lidar estimation of disrupted trees induced by landslides*. In: Proceedings of the IEEE International Geoscience and Remote Sensing Symposium 21-26 July 2013, Melbourne, Australia

Samuri, N., Unjah, T., **Abu Bakar, R.**, (2013). *Flood Phenomenon in Malaysia*. In: Proceedings of the International Conference: Challenges of Extended Mega Urban Region: The Changing Face of South East Asia and the World 19- 21 November 2013, Putrajaya, Malaysia

Razak, K.A., **Abu Bakar, R.**, Wah, Q, Y., Wan Mohd Akib, W.A.A., (2011). *Geodetic laser scanning technique for characterizing landslides along high-risk road zone: Applications and limitations*. In: Proceedings of FIG working week 2011: bridging the gap between cultures, Marrakech, Morocco, 18-22 May 2011. 13p.

Abu Bakar, R., Razak, K. A (2010). The utilization of Malaysian active GPS system data for geodynamic: A case study in East and West Malaysia. In: Geophysical Research Abstracts, 12 (2010) EGU2010-13966, European Geosciences Union General Assembly 19-24 April 2010, Vienna. Austria.

Research Grants and Contracts

- 1) Multi Sensor of Remotely Sensed Data for Characterizing Seismotectonic Activity: A Complex Environment in Malaysia. Application Id: 38659-60741, Ref. Code: FRGS/1/2014/Stwn06/UKM/02/5, Grant Frgs:2014-1
- 2) Mountain Geohazards and Landslide Geomorphology in Malaysia: Developing Topographic Precursors and Spurring Multi-Disciplinary Geo-Disaster Research, Ref. No: Py/2017/02440, Cost Center No. S.K130000.0440.4y108
- 3) Earthquake Resilient Communities in ASEAN Region: A Transdisciplinary Approach,
Ref. No. Py/2018/0268, Cost Center No. R.K130000.7340.4b337
- 4) Contract Research on the Production of Slope Hazard and Risk Mapping In Sabah
Ref. No. Py/2016/0608, Cost Center No. R.K130000.7640.4c102
- 5) Community-Based Disaster Informatics for Building Resilient Cities
Ref. No. Py/2017/0243, Cost Center No. S.K130000.0440.4y109
- 6) Garis Panduan Perancangan Tahap Daya Tahan Bencana Bandar-Bandar Di Malaysia (Disaster Resilient City) Ref. No.Py/2017/02443, Cost Center No.S.K130000.0440.4y111

Consultation & Expertise (Appointment, Organization, Title, Level, Year, Action/Role)

2nd August 2021-28th April 2022

Country Manager, Hi-Target Singapore Pte. Ltd. Representative Office Malaysia, Level 23, Lingkaran TRX, Tun Razak Exchange Menara Exchange 106, 55188 Kuala Lumpur.

- *Business Development in Malaysia, Setup Dealers Network*
- *Develop Business Plan for Hi-Target in Malaysia*
- *Provide Training, Build Branding & Marketing*
- *Others: Involvement with MPAJ Landslide project with UTMKL & RAKAN NADMA for NGO*

20th Dec 2020-28th Oct 2021

Technical Consultant, Japan International Cooperation Agency (JICA), Malaysia-Japan International Institute of Technology (MIIT), International Campus Kuala Lumpur, Jalan Sultan Yahya Petra, 54100 Kuala Lumpur.

- *NADMA-JICA Survey Project on Disaster Risk Reduction Management (DRRM) Capacity of Local Government in Malaysia (presented to DG NADMA in November 2021)*

- Plan and acquire information for the survey, work together with Lead Consultant to plan and acquire required information for the survey, coordinate and communicate with the relevant agencies and departments of local governments as well as research institutes and experts for the survey, find data required for the survey and arrange purchase as necessary. Organize meetings to present Progress Reports & Final Reports with Project Team (DPPC, NADMA, and JICA) for technical and admin advice.
- Conduct interview sessions, site visits and workshops
- Reporting, Presenting Final Result to DG NADMA, Putrajaya

2018-2020 Nov

Consultant for Geohazard Laboratory, Universiti Teknologi Malaysia, Kuala Lumpur

- Bukit Antarabangsa Prevent-Landslide project (On-Going)
- TNB Strategic Action 2030 (Dam-related Disaster Risk Reduction) (On-Going)
- Rakan NADMA (UTM-NADMA) (On-Going)
- UNDP Training of Trainers (ToT) for school preparedness for tsunamis and conduct pilot ToT

January 2010- 2013

Consultant - GNSS Expert, @ AV Tech Resources, Subang

- Conduct frequent education, training and support on satellite surveying (GNSS/GPS) for local institutions and private
- Provide professional consultation and hands-on training/education on High-End Survey Equipment, Terrestrial Laser Scanning and Mobile GNSS for both private and government sectors

October 2007- Dec 2009

Geomatics Consultant, Solar Services, Johor Bahru

- Conduct frequent education, training and support on satellite surveying for local institutions and private companies.
- Provide professional consultation and personal education on GPS for Coordinated Cadastral System (CCS) project to Jurukur Mutiara, Jurukur Abadi and Topcon Instrument (M) Sdn. Bhd.
- Landslide monitoring at Hillview (joint partner UTM and licensed surveyor firm)

Dec 2006 – August 2007

Consultant on GNSS Survey Control Network for North Tunnel Drive:

SMART-STORMWATER MANAGEMENT AND ROAD TUNNEL, MMC-GAMUDA JV, Mr Gustav Klados, Senior Project Manager, TBM Tunnel Boring Contract

May 2002–Nov 2005

Consultation for Offshore Monitoring, Universiti Teknologi Malaysia, Skudai, Johor

- GPS Processing involving Shell platform with GeoLab software
- Bernese high precision GPS software for deformation monitoring, several processing involving offshore platforms (Shell & Petronas Carigali) with Bernese high precision GPS software for deformation monitoring (>14 projects)
- Dual Railway Project UTM, railway ref-points utilizing GPS from Bukit Mertajam, Sbrg. Perai to Bukit Kayu Hitam, Perlis. Project Leader: Prof Dr. Shahrum Ses

Innovation, Commercialization & Entrepreneurial

- GNSS for GAMUDA, Road Construction Kalabakan-Sapulut, TOPCON INSTRUMENTS (M) SDN. BHD., 2005-2007, Sales & Support Engineer

- GNSS for GAMUDA-MMC, SMART-Tunnel, TOPCON INSTRUMENTS (M) SDN. BHD., 2005-2007, Sales & Support Engineer
- GNSS for YTL, Hi-Speed Rail, TOPCON INSTRUMENTS (M) SDN. BHD., 2005-2007, Sales & Support Engineer
- TLS for PKNS Selangor, TOPCON INSTRUMENTS (M) SDN. BHD., 2015, Consultant to Pitch Sales
- Advanced Technology Sales, SATLAB GEOSOLUTIONS / HI-TARGET International, 2021, Country Manager, APAC Region, Malaysia

Services & Administration

2nd August 2021-28th April 2022

Country Manager, Hi-Target Singapore Pte. Ltd. Representative Office Malaysia, Level 23, Lingkaran TRX, Tun Razak Exchange Menara Exchange 106, 55188 Kuala Lumpur.

- *Business Development in Malaysia, Setup Dealers Network*
- *Develop Business Plan for Hi-Target in Malaysia*
- *Provide Training, Build Branding & Marketing*
- *Others: Involvement with MPAJ Landslide project with UTMKL & RAKAN NADMA for NGO*

Work and Collaboration Experience

2nd August 2021-28th April 2022

Country Manager, Hi-Target Singapore Pte. Ltd. Representative Office Malaysia, Level 23, Lingkaran TRX, Tun Razak Exchange Menara Exchange 106, 55188 Kuala Lumpur.

- *Business Development in Malaysia, Setup Dealers Network*
- *Develop Business Plan for Hi-Target in Malaysia*
- *Provide Training, Build Branding & Marketing*
- *Others: Involvement with MPAJ Landslide project with UTMKL & RAKAN NADMA for NGO*

20th Dec 2020-28th Oct 2021

Technical Consultant, Japan International Cooperation Agency (JICA), Malaysia-Japan International Institute of Technology (MJIIIT), International Campus Kuala Lumpur, Jalan Sultan Yahya Petra, 54100 Kuala Lumpur.

- *NADMA-JICA Survey Project on Disaster Risk Reduction Management (DRRM) Capacity of Local Government in Malaysia (presented to DG NADMA in November 2021)*
- *Plan and acquire information for the survey, work together with Lead Consultant to plan and acquire required information for the survey, coordinate and communicate with the relevant agencies and departments of local governments as well as research institutes and experts for the survey, find data required for the survey and arrange purchase as necessary. Organize meetings to present Progress Reports & Final Reports with Project Team (DPPC, NADMA, JICA) for technical and admin advice.*
- *Conduct interview sessions, site visits and workshops*
- *Reporting, Presenting Final Result to DG NADMA, Putrajaya*

2018-2020 Nov

Researcher @ Geohazard Laboratory, Universiti Teknologi Malaysia, Kuala Lumpur & Research Assistant, Southeast Asian Disaster Prevention Research Initiatives (SEADPRI), National University Malaysia (UKM), Bangi (In Collaboration)

- *Bukit Antarabangsa Prevent-Landslide project (On-Going)*
- *TNB Strategic Action 2030 (Dam-related Disaster Risk Reduction) (On-Going)*
- *Rakan NADMA (UTM-NADMA) (On-Going)*
- *UNDP Training of Trainers (ToT) for school preparedness for tsunamis and conduct pilot ToT(On-Going)*

- CBDRR 2021, Community-based Disaster Risk Reduction @ Redang 2021, (5th March 2021)
- DPPC Disaster Relief & Rapid Assessment Mission 1.0, Kelantan, (7th January 2021)
- Writing of several papers related to DRRM with NADMA & APM officer (On-Going)

2016-2017

Graduate Research Assistant, Southeast Asian Disaster Prevention Research Initiatives (SEADPRI), National University Malaysia (UKM), Bangi

- Mountain Geohazards and Landslide Geomorphology in Malaysia funded by Japan-ASEAN Science, Technology and Innovation Platform, JASTIP-Net 2017 and Kyoto University Japan
- Earthquake Resilient Communities in ASEAN Region: A Transdisciplinary Approach funded by International Research on Disaster Risk, International Centre of Excellence (IRDR ICoE-Taipei), International Council for Science Regional Office for Asia and the Pacific (ICSU ROAP)

2014-2016

Researcher @ Geohazard Laboratory, Universiti Teknologi Malaysia, Kuala Lumpur

- Geospatial processing and mapping generation using InSAR, LiDAR
- 2016 Extra Budgetary Contribution for the Republic of Korea (EBC-K) project funded by the Asia Pacific Telecommunity (APT) and the Republic of Korea under theme of ICT & Disaster Resilient: A Resilient Community Research
- Mountain Geohazards and Landslide Geomorphology in Malaysia funded by Japan-ASEAN Science, Contract Research on the Production of Slope Hazard and Risk Mapping in Sabah (PBRC Sabah), Minerals and Geoscience Department, Ministry of Natural Resources and Environment

January 2010- 2013

Consultant - GNSS Expert, @ AV Tech Resources, Subang

- Conduct frequent education, training and support on satellite surveying (GNSS/GPS) for local institutions and private
- Provide professional consultation and hands-on training/education on High-End Survey Equipment, Terrestrial Laser Scanning and Mobile GNSS for both private and government sectors

October 2007- Dec 2009

Geomatics Consultant, Solar Services, Johor Bahru

- Conduct frequent education, training and support on satellite surveying for local institutions and private companies.
- Provide professional consultation and personal education on GPS for Coordinated Cadastral System (CCS) project to Jurukur Mutiara, Jurukur Abadi and Topcon Instrument (M) Sdn. Bhd.
- Landslide monitoring at Hillview (joint partner UTM and licensed surveyor firm)

Dec 2005 – Sep 2007

Sales and Support Engineer, Topcon Instruments (M) Sdn. Bhd., Ampang, Kuala Lumpur.

- Training and pitching to selling high precision surveying equipment and providing training/support to multinational companies on projects; SMART tunnelling project, dual railway track project, Sapulut-Kalabakan Road construction in Sabah, and Power Plant offshore project etc.
 - **GAMUDA-MCMC** for **SMART tunnel** and Major Road Project in Sabah (G.Manager: Mr Pua)
 - **YTL** initial **bullet-train** Singapore-KL project as GNSS consultant (Manager: KC Tan)
 - **Taisei/Jimah Power Plant** Offshore Pillars Monitoring with RTK-GPS
 - **Naim Cendana**, Sarawak **Road Alignment** and pilling works, training on-site GPS demo.
 - Several Licensed Surveyors Firm: Jurukur Setia; Proactive; Equarater Sdn. Bhd. Etc.
- Deliver education, training, and support on GPS/GNSS for institutions and private companies.

- Speaker in international and local exhibitions, seminars on behalf of company. General Director: Mr Quek Yong Wah, Asia Managing Director: Mr Kiyoshi Tanaka

May 2002–Nov 2005

Researcher Assistant, Universiti Teknologi Malaysia, Skudai, Johor

- GPS Processing and Consultation for Offshore Monitoring
- Carried out two processing involving Shell platform with GeoLab software
- Carried out processing involving offshore platforms with Bernese high precision GPS software for deformation monitoring.
- Carried out several processing involving offshore platforms (Shell & Petronas Carigali) with Bernese high precision GPS software for deformation monitoring (>14 projects)
- Dual Railway Project UTM, railway ref-points utilizing GPS from Bukit Mertajam, Sbrg. Perai to Bukit Kayu Hitam, Perlis. Project Leader: Prof Dr. Shahrum Ses

High-Risk Structure Deformation of the Penang Bridge

- Assisted in 3 different observations of the Penang Bridge during the above period. Utilizing Leica 500 and Trimble 4800. Project Leader: Prof. Madya Dr Wan Abdul Aziz Wan Mohd Akib

BEng (Geomatic) Practical Work: Coordinated Cadastral System (CCS)

- ArcGIS Utilization, StarNet for Analysis and Adjustments on the Melaka cadastral lots. Project Leader: Dr. Abdullah Hisham and Prof. Dr. Majid Abdul Kadir

Awards & Recognitions

Recipient of My Brain-My Phd

Scholarship From Malaysian Ministry Of Higher Education Reference No. [Kpm (B) 780220665056]

Recipient of Skim Geran Penyelidikan Fundamental (FRGS) 2014-1 (Frgs/1/2014/Stwn06/Ukm/02/5) @ **Rm108, 000**, for Topic: Seismotectonic Geohazards and Geospatial Framework For Disaster Risk Reduction In Kundasang Sabah with SV: PM Dr Tajul Anuar Jamaluddin.

International Training Workshop: Big Earth Data for Disaster Risk Reduction (Full Board)

CAS-TWAS Center of Excellence on Space Technology for Disaster Mitigation (SDIM), Integrated Research on Disaster Risk (IRDR), Digital Belt and Road (DBAR), Beijing, China 30th Oct- 5th November 2018

International Training Course: Earthquake Hazard and Risk Assessment in East Asia (Full Board with Daily Allowance)

Integrated Research on Disaster Risk (IRDR), International Science Council (ICSU) Academia Sinica, Taipei, Taiwan 1st-5th October 2018

Contribution to Society

1. Rakan NADMA committee member (On-Going)
2. TNBR-TOT for Dam Related Disaster (On-Going)
3. 08th-13th October 2018

High-Impact Community-Based Disaster Risk Reduction (HiCBDRR 2018) & UNISDR Awareness Day
Kundasang, Sabah (Role: Emcee / Public Relations), 5-Star Research in UTM.

4. 06th September 2018
MAMPAN Expert Forum. Topic: Towards a Flood Resilient Infrastructure in Malaysia: Current Issues, Challenges and Future Direction. Construction Research Institute of Malaysia (CREAM), CIDB, KL, Malaysia (Role: Emcee/Rapporteur)
11. 27th February 2018
CPX-IDAMAN 2018, Landslide Simulation and Drill
Universiti Teknologi Malaysia Engagement with Multi-Stakeholders, Agencies and Community Outreach Programme @ Taman Idaman , Serendah Selangor. (Role: Rapporteur/Photographer)
12. 13th October 2016
UTM Disaster Risk Reduction Day 2016
Universiti Teknologi Malaysia Engagement with Multi-Stakeholders, Agencies and Community Outreach Programme @ Rantau Panjang, Pasir Mas, Kelantan (Role: Financial/Rapporteur)
13. 23rd -30th November 2015
UTM Scientific Expedition 2015
Universiti Teknologi Malaysia KL Data Collection and Engagement with Multi-Stakeholders, Agencies and Community Outreach Programme @ Kundasang, Sabah (Role: Financial/Researcher/Photographer)
14. 23rd -25th March 2015
International Symposium on Multi Hazard and Risk 2016 & Landslide Workshop
Universiti Teknologi Kuala Lumpur (Role: Financial/Rapporteur/Photographer)
15. 14rd -18th October 2014
International Capacity Building Workshop on Landslide Mapping and Assessment 2014
Universiti Teknologi Malaysia Engagement with Multi-Stakeholders, Agencies and Private Companies (Role: Financial/Speaker/Rapporteur)

Other Activities

1. 25th-26th June 2022
International Conference on Geomatics & Geospatial Technology (GGT 2022), UiTM Shah Alam, Malaysia (Role: Secretariat/Emcee)
2. 24th April 2019
International Invited Speaker for Earth Sciences for Disaster Risk Reduction
Geoscience Industrial Week 2019, Department of Geology, University of Malaya, Kuala Lumpur. (Role: Speaker)
3. 22nd -26th April 2019
European Association on Geoscience & Engineering-GSM 2nd Asia Pacific Meeting on Near Surface GE
Universiti Teknologi Malaysia, Kuala Lumpur (Role: Quiz Master / Emcee / Facilitator)
4. 15th -16th July 2019
GIS-Disaster Risk Reduction and Resilience (GIS-DR3)-Part1, 2019
Tenaga Nasional Berhad, TNB Development & Training Center Port Dickson (Role: Speaker / Facilitator)
5. 25th February-2nd March 2019
Science and Technology for Disaster Risk Reduction (STDRR2019) Week, Kundasang, Sabah (Role: Emcee /

Financial)

6. 03rd-04th September 2018

International Conference on Geomatics & Geospatial Technology (GGT 2018), Kuala Lumpur, Malaysia (Role: Secretariat/Emcee)

7. 5th-6th July 2018

Society for Engineering Geology and Rock Mechanics Malaysia Symposium & Short Course (SEGRM2018), Kuala Lumpur, Malaysia (Role: Emcee/Secretariat)

8. 29th Jun 2018

SeDAR Program, Joint Private-Partnership (JPP)

The Selangor State Government, Japan International Cooperation Agency, Tohoku University, and Universiti Teknologi Malaysia (UTM), Shah Alam, Kuala Lumpur.) (Role: Emcee/Rapporteur)

9. 14th May 2018

MAMPAN Expert Forum

Topic: Landslide in Malaysia: Current Issues, Challenges and Future Direction, Construction Research Institute of Malaysia (CREAM), CIDB, Kuala Lumpur, Malaysia (Role: Emcee / Rapporteur)