

# Giri Wahyu Wiriasto

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## Employment History

- Dec'2010 – Present **Lecturer.** Electrical Engineering Department (Computer Engineering Concentration), Faculty of Engineering - University of Mataram , Lombok - INDONESIA
- 2007 – 2010 **Teacher.** Information Technology Department, Vocational High School-SMK 3 PGRI Malang, East Java - INDONESIA
- 2006 – 2007 **Engineering Technician.** Information Technology Consultant - PT.Batuville International Malang, East Java - INDONESIA
- 2004 – 2006 **NOC Technician.** Internship in Internet Laboratory - National Institute of Technology (ITN) Malang. , East Java - INDONESIA

## Education

- 2008 – 2010 **M.T (Master of Engineering),** in Computer Engineering Department - Institut Teknologi Sepuluh Nopember (ITS) Surabaya, INDONESIA. with **GPA 3,58** (scale 4.0)  
Thesis title: *Computer Vision Calibration Single Camera using Genetic Algorithm.*
- 2000 – 2006 **S.T. (Bachelor)** in Electrical Engineering Department, National Institute of Technology (ITN) Malang, INDONESIA. with **GPA 2.88** (scale 4.0)  
Thesis title: *Design of Cascade Microhydro Powerplant with Economic Dispatch Analysis.*

## Research Publications



### Journal Articles

- 1 M. Misbahuddin, M. S. Iqbal, D. F. Budiman, **G. W. Wiriasto**, and L. A. S. I. Akbar, "Eam-loranet: Energy aware multi-hop lora network for internet of things," *Kinetik: Game Technology, Information System, Computer Network, Computing, Electronics, and Control*, vol. 7, no. 1, pp. 81–90, Feb. 2022. [DOI: 10.22219/kinetik.v7i1.1391](https://doi.org/10.22219/kinetik.v7i1.1391).
- 2 M. L. Mustagfirin, **G. W. Wiriasto**, I. M. B. Suksmadana, and I. P. Kinasih, "Android-based short message service filtering using long short-term memory classification model," *Khazanah Informatika : Jurnal Ilmu Komputer dan Informatika*, vol. 8, no. 2, Oct. 2022, ISSN: 2477-698X. [DOI: 10.23917/khif.v8i2.17995](https://doi.org/10.23917/khif.v8i2.17995).
- 3 M. Misbahuddin, M. S. Iqbal, **G. W. Wiriasto**, L. Ahmad, S. I. Akbar, and M. Irwan, "Neural network performance based on backpropagation and lvq as the lora rss fingerprint algorithms for positioning in an open space," *Jurnal Teknologi dan Sistem Komputer*, vol. 8, no. 2, pp. 121–126, 2020, ISSN: 2338-0403. [DOI: 10.14710/jtsiskom.8.2.2020.121-126](https://doi.org/10.14710/jtsiskom.8.2.2020.121-126).
- 4 **G. W. Wiriasto**, R. W. S. Aji, and D. F. Budiman, "Design and development of attendance system application using android-based flutter," pp. 1–6, 2020. [DOI: 10.1109/ICVEE50212.2020.9243190](https://doi.org/10.1109/ICVEE50212.2020.9243190).







- 5 M. Aulia, **G. W. Wiriasto**, and suthami ariessaputra, "Development of influenza disease diagnosis expert system using inference logic web based," *Dielektrika*, vol. 6, no. 1, 2019. [URL: https://dielektrika.unram.ac.id/index.php/dielektrika/article/view/186](https://dielektrika.unram.ac.id/index.php/dielektrika/article/view/186).
- 6 P. R. Ramadhan, **G. W. Wiriasto**, M. S. Iqbal, and Misbahuddin, "Sistem pengambilan keputusan penjurusan akademik sekolah menengah atas berdasarkan kemampuan akademik, potensi psikologi dan minat bakat siswa menggunakan fuzzy inference system metode sugeno dua lapis," *Jurnal SISKOM-KB*, vol. 2, 2019. [URL: https://jurnal.tau.ac.id/index.php/siskom-kb/article/view/59](https://jurnal.tau.ac.id/index.php/siskom-kb/article/view/59).
- 7 I. P. A. Priyatna, I. M. B. Suksmadana, and **G. W. Wiriasto**, "Designing of thing mover mobile robot with a single vision as object shapes sensor based on raspberry pi," *DIELEKTRIKA*, vol. 4, no. 2, pp. 104–111, 2017, ISSN: 2579-650X. [URL: https://dielektrika.unram.ac.id/index.php/dielektrika/article/view/77](https://dielektrika.unram.ac.id/index.php/dielektrika/article/view/77).
- 8 **G. W. Wiriasto**, T. Zubaidah, B. Kanata, and I. P. Kinasih, "Lok-viewer : Graphical interface application for geomagnetic data in observatory geomagnetic lombok," *CEIE - International Conference on Electrical Engineering, Informatics, and Its Education*, pp. C114–C119, 2015, ISSN: 2461-0354. [URL: http://elektro.um.ac.id/ceie/2015/storage/proceeding/C-23](http://elektro.um.ac.id/ceie/2015/storage/proceeding/C-23).
- 9 I. P. Kinasih, **G. W. Wiriasto**, B. Kanata, and T. Zubaidah, "Lesser sunda islands earthquake inter-occurrence times distribution modeling," *International Journal of Technology*, vol. 5, no. 3, 2014, ISSN: 2087-2100. [URL: http://ijtech.eng.ui.ac.id/old/index.php/journal/article/view/610](http://ijtech.eng.ui.ac.id/old/index.php/journal/article/view/610).

## Conference Proceedings

- 1 **G. W. Wiriasto**, Misbahuddin, M. S. Iqbal, D. F. Budiman, A. S. Rachman, and L. A. S. I. Akbar, "Aksyaa: Web-based accounting information system with sharia financial perspective," in *Proceedings of the First Mandalika International Multi-Conference on Science and Engineering 2022, MIMSE 2022 (Informatics and Computer Science) (MIMSE-I-C-2022)*, Atlantis Press, 2022, pp. 367–378, ISBN: 978-94-6463-084-8. [DOI: https://doi.org/10.2991/978-94-6463-084-8\\_31](https://doi.org/10.2991/978-94-6463-084-8_31).
- 2 M. Y. Yahya, Misbahuddin, and **G. W. Wiriasto**, "Received signal strength of wifi devices for indoor positioning using neural network lvq method," in *International Conference on Science and Technology (ICST) (ICST 2020)*, vol. 1, Mataram, Indonesia, 2020, pp. 26–31. [URL: https://proceeding.unram.ac.id/index.php/icst/article/view/22](https://proceeding.unram.ac.id/index.php/icst/article/view/22).
- 3 Misbahuddin, M. S. Iqbal, and **G. W. Wiriasto**, "Multi-hop uplink for low power wide area networks using lora technology," in *2019 6th International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE)*, 2019, pp. 1–5. [DOI: 10.1109/ICITACEE.2019.8904272](https://doi.org/10.1109/ICITACEE.2019.8904272).
- 4 B. Kanata, T. Zubaidah, **G. W. Wiriasto**, et al., "Earth magnetic fields evolution over nusa tenggara region from intensity and power spectral density changes on lombok geomagnetic observatory," in *2018 2nd International Conference on Applied Electromagnetic Technology (AEMT)*, 2018, pp. 92–97. [DOI: 10.1109/AEMT.2018.8572349](https://doi.org/10.1109/AEMT.2018.8572349).
- 5 B. Kanata, T. Zubaidah, **G. W. Wiriasto**, and Paniran, "Correlation of geomagnetic signal for earthquake studies in indonesian, australian and pacific regions," in *2016 International Seminar on Intelligent Technology and Its Applications (ISITIA)*, 2016, pp. 399–404. [DOI: 10.1109/ISITIA.2016.7828693](https://doi.org/10.1109/ISITIA.2016.7828693).
- 6 **G. W. Wiriasto**, S. Riski, B. Kanata, and T. Zubaidah, "Enhancement of lok-viewer based interfaces application for geomagnetic data signal processing using differentiation method," in *2016 International Seminar on Intelligent Technology and Its Applications (ISITIA)*, 2016, pp. 243–248. [DOI: 10.1109/ISITIA.2016.7828665](https://doi.org/10.1109/ISITIA.2016.7828665).
- 7 T. Zubaidah, B. Kanata, Paniran, and **G. W. Wiriasto**, "A observation of geomagnetic fields changes related to 9th march 2016 solar eclipse on lombok island-indonesia," in *The 7th Indonesia Japan Joint Scientific Symposium (IJSS)*, Chiba University, Japan, 2016, p:1–9. [URL: https://opac.ll.chiba-u.jp/da/curator/107811/ceresIntlSympo-24-P000-contents.pdf](https://opac.ll.chiba-u.jp/da/curator/107811/ceresIntlSympo-24-P000-contents.pdf).









- 8 **G. W. Wiriasto**, T. Zubaidah, B. Kanata, and I. P. Kinasih, "Lok-viewer: Graphical interface application for geomagnetic data in observatory geomagnetic lombok," in *International Conference on Electrical Engineering, Informatics, and Its Education 2015*, 2015, pp. C114–C119.  URL: <http://elektro.um.ac.id/ceie/2015/proceeding>.
- 9 **G. W. Wiriasto**, I. P. A. Wiguna, and I. P. Kinasih, "A study on hepatitis-b phases diagnosing disease using logical inference and datamining," in *EECCIS (Electrics, Electronics, Communications, Controls, Informatics, Systems)2014*, 2014, E1.1–E1.5.  URL: [https://www.researchgate.net/publication/281060208\\_A\\_Study\\_on\\_Hepatitis-B\\_Phases\\_Diagnosing\\_Disease\\_Using\\_Logical\\_Inference\\_and\\_Datamining](https://www.researchgate.net/publication/281060208_A_Study_on_Hepatitis-B_Phases_Diagnosing_Disease_Using_Logical_Inference_and_Datamining).

## Skills




Languages		Strong reading and moderate writing and speaking competencies for English (ITP-TOEFL), Bahasa Indonesia.
Programming		Matlab, Python, C, Java
Operating System		Linux, MacOS, Windows
Databases		MySQL
Web and Mobile Dev		HTML, css, JavaScript, Apache Web Server, Flutter
Misc.		Academic research, teaching, training, consultation, $\LaTeX$ typesetting and publishing.

## Miscellaneous Experience

### Projects Experience


- 2022  **Project Leader**, Information System Development for Learning Evaluation. Url Link » <http://www.evaluasi.te.unram.ac.id>
-  **Project Leader**, Development Accounting Information System. Url Link » <http://www.aksyaa.com>
- 2020  **Project Leader**, Development University Quality Assurance Infomation System. Url Link » <http://www.spmi.unram.ac.id>
- 2019  **Project Leader**, Development Accreditation Infomation System. Url Link » <http://www.akreditasi.ft.unram.ac.id>
- 2008  **Part-time Instructor**, Macromedia Flash Instructor on PT.ASTRA Indonesia - Surabaya, East Java - INDONESIA
- 2007  **Surveyor**, GIS Mapping using Arch-GIS in Mojokerto dry land Area - East Java - INDONESIA (PT. Batuville International)
- 2006  **IT Technician**, Installation Fingerprint attendance System in Juanda International Airport - Surabaya (PT. Batuville International)
- 2005  **Technician**, Installation Local Area Network at - Campus Area National Institute of Technology (ITN) Malang, , East Java - INDONESIA

### Community Sevices


- 2021  **Teaching Voluntary**. TITLE : INTRODUCTION AND USE OF INTERNET OF THINGS (IOT) TECHNOLOGY USING PRACTICE MODULES FOR VOCATIONAL SCHOOL STUDENTS AND TEACHERS
-  **Supervisor**. Activities : Application of Solar Cell Technology in Public Street Lighting - North Lombok
- 2020  **Teaching Voluntary**. Title : Internet Market Place Training for Craftsmen


## Miscellaneous Experience (continued)


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2018     **Teaching Voluntary.** Title : Workshop on Using Digital Educational Games for Teachers

### Certifications

2022     **IoT Fundamental : Connection Things.** For completing the Cisco Networking Academy® » <https://www.netacad.com/portal/learning>

 **Iot Fundamental : IoT Security.** For completing the Cisco Networking Academy® » <https://www.netacad.com/portal/learning>

 **Iot Fundamental : Big Data and Analytics.** For completing the Cisco Networking Academy® » <https://www.netacad.com/portal/learning>

 **English Proficiency: ITP-TOEFL.**

### References

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#### Referee

(Available on Request)

#### Printed Date

January 4, 2023