EKA MAULANA (ST, MT, M.Eng.)

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Malang - Indonesia
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TTL : Blitar, 30 November 1984

Pendidikan

1998-2001	SLTP Negeri 1 Blitar
2001-2004	SMA Negeri 1 Blitar
2004-2009	S1 Teknik Elektro, Universitas Brawijaya. (S.T) Konsentrasi: *Elektronika*
2009-2011	S2 Magister Teknik Elektro, Universitas Brawijaya. (M.T) Konsentrasi: *Sistem Kontrol dan Elektronika* (DDP)
2010-2011	Master of Engineering in Dept. of Electrical Engineering (M.Eng.) University of Miyazaki - Japan Konsentrasi: *Laser & Photonic Applications*

Organisasi

2015	**IEEE** (Institute of Electrical and Electronic Engineering)
2015	**UACEE** *(Universal Association of Computer Science and Electrical Engineering)*
2014-now	**IACSIT** *(International Association of Computer Science and Information Technology)* - Electronics and Electrical Society
2014-now	**IAENG** *(International Association of Engineers)* - Society of Electrical Engineering
2014-now	**WASET** *(World Academy of Science, Engineering and Technology)*
2014-now	**IACSIT** *(International Association of Computer Science and Information Technology)* - Photonics and Microelectronics Society
2010-2014	Ketua **MIPI** (Masyarakat Ilmiah Pemuda Indonesia)
2010-2011	**PPI** (Persatuan Pelajar Indonesia-Jepang). Bidang Pendidikan.

Pengalaman Kerja

2006-2008	Asisten di Laboratorium Sistem Digital dan Komputer, UB
2010-2011	Asisten Peneliti di Photonic Application Laboratory - UoM
2012-now	- Dosen Teknik Elektro - Universitas Brawijaya - Anggota Laboratorim Elektronika, Lab. Desain dan Prototype - Pembimbing Tim Robot & Karya Ilmiah Univ. Brawijaya

Publikasi Penelitian

- **Development of Fabrication Technique of Fiber Bragg Grating as Physical Sensors**.
  高機能性センサー素子の作製を目指した FBG 作製技術の開発. [in Japanese]
  KAMEYAMA, Akihiro; MAULANA, Eka; KATTO, Masahito; YOKOTANI, Atsushi (2011)
  レーザー学会研究会報告 = Reports on the Topical meeting of the Laser Society of Japan vol. 418 p. 61-66.

- **Fabrication of Tilted Fiber Bragg Grating as a Sensor of Refractive Index of Liquids**.
  Maulana, Eka; Kameyama, Akihiro; Katto, Masahito; Yokotani, Atsushi (2012)
  Memoirs of the Faculty of Engineering, Miyazaki University vol. 41 p. 35-40. [abstract link]

- **Laser Original: Fabrication of Tilted Fiber Bragg Grating as A Sensor of Refractive Index of Liquids**.
  KAMEYAMA, Akihiro; MAULANA, Eka; KATTO, Masahito; YOKOTANI, Atsushi (2012)
  レーザー研究 Laser Research vol. 40 (11) p. 883-887.

- **Design of 16 TO 1 Multiplexer IC Using High Speed CMOS Technology**.
  Eka Maulana, M Julius St, R Arief Setyawan, Ceri A, Tito Panca N (2012)
  Proc. of Microelectronic and Electronic Device, The 5th Indonesia Japan Joint Scientific Symposium (IJJSS) Chiba University, Japan. p. 235-238. [abstract link]

- **Effect of Ethanol-96% In Gasoline with Mixture Ratio of 1:9 and 2:8 On the Combustion and Emission of 125cc Four-stroke Engine**.
  Dwi Fadila KURNIAWAN, Eko SISWANTO, Erni YUDANINGTYAS and Eka MAULANA (2013). Proc. of International Conference on Education, Technology and Science (NETS 2013), p.213-218. [abstract link]

- **Organic Solar Cell based on extraction of Papaya (*Carica papaya*) and Jatropha (*Ricinus communis*) leaves in DSSC (Dye Sensitized Solar Cell).**
  Sholeh Hadi Pramono, Eka Maulana, M. Julius St., and Teguh Utomo (2013). Proc. of International Conference on Education, Technology and Science, p.248-251. [abstract link]

- **Desain Sistem Presensi Elektronik RFID Terintegrasi dengan Sistem Informasi Akademik UB**.
  R.A Setyawan, Nanang Dwi S, Eka Maulana, Akhmad Zainuri (2014)
  EECCIS 2014 Joint Conference UB-UTHM. Vol. 7. pp.94.

- **Characterization of Dye-Sensitized Solar Cell (DSSC) Based on Chlorophyll Dye**.
  Pramono, Sholeh Hadi; Maulana, Eka; Fanditya, Dody; Djatmika, Rosalina (2015)
  International Journal of Applied Engineering Research. vol. 10 (1). p. 193-205. link jurnal

- **Inverse Kinematics of a Two-Wheeled Differential Drive an Autonomous Mobile Robot**.
  Eka Maulana, M Aziz Muslim, Akhmad Zainuri (2014).
  IEEE – 2014 Electrical Power, Electronics, Communications, Controls and Informatics Seminar. pp. 93-98. IEEE Link

- **Effect of Chlorophyll Concentration Variations from Extract of Papaya Leaves on Dye-Sensitized Solar Cell**.
  Maulana, E., Pramono, S., Fanditya, D., Julius, M. (2015).
  World Academy of Science, Engineering and Technology, International Science Index 97, International Journal of Electrical, Computer, Electronics and Communication Engineering, vol. 9, no. 1, 49 – 52. link jurnal

- **Inverse Kinematic Implementation of Four-Wheels Mecanum Drive Mobile Robot Using Stepper Motors**.
  Eka Maulana, M Aziz Muslim, V Hendrayawan (2015). in Intelligent Technology and Its Applications (ISITIA), 2015 International Seminar on , vol., no., pp.51-56, 20-21 May 2015. IEEE Link

- **The Effect of Photoelectrode TiO_2 Layer Thickness to The Output Power of Chlorophyll-Based Dye-Sensitized Solar Cell (DSSC)**, Pramono, S.H.; Maulana, E.; Sembiring, M., in Intelligent Technology and Its Applications (ISITIA), 2015 International Seminar on, vol., no., pp.107-112, 20-21 May 2015. IEEE Link

Penghargaan

2007 Juara I "Kontes Robot Cerdas Indonesia" ITS, Surabaya
2007 Penghargaan "*Youth National Science and Technology Award*" Kementrian Negara Pemuda dan Olah Raga, Jakarta
2008 Juara II "Lomba Karya Inovatif Mahasiswa" Dinas Pendidikan Jatim, Surabaya
2008 Mahasiswa Berprestasi (*Mawapres*) Universitas Brawijaya
2010 Pemuda Pelopor Bidang Pendidikan (Kota Malang dan Jatim)

Bidang Penelitian

2015 Desain dan Karakterisasi *Smart Grid System* berbasis DC-LV.
2014 Desain *Electronic Control Unit* (ECU) untuk mobil listrik.
2013 Desain dan Karakterisasi *Organic Solar Cell* pada DSSC.
2012 Sistem presensi terpadu berbasis RFID.
2011 Design & Fabrication of Tilted Fiber Bragg Grating as a Sensor.
2009 Voice Braille Dictionary "Indonesian to English".
2008 Pest Sprayer Robotic for Wheat Insect.
2008 Design of Buoy Technology as Renewable Energy Resource.
2008 Portable Digital Device of Praying Time Reminder and Kiblah Direction for Blind.
2007 "Ababil Robotic", Fire Fighting Intelligent Robot Contest.
2007 Implementation of Logic Manager 623-35 as DCS (*Distributed Control System) supporting TDC-3000 Honeywell.*
2007 Design of Walet birds (*collacalia fuciphaga*) decoyed Tool Using Data logger based Atmega16L Microcontroller.
2006 "MyWrite", Design and Implementation of AVR Microcontroller USB Downloader use Delphi 7 and Avrdude.
2005 Design of Distance and Position Control System Based Digital Compass in Mobile Robot.

Personal Interest

Travelling, Reading, Writing, Information Technology, Nano Technology, Material Science & Embedded Systems.

Reference

[1] Maulana, E. (2014). 'profile/personal-information/CV-Eka-Maulana', http://maulana.lecture.ub.ac.id/profile/personal-information/ v.1(1), UB.