

ALFREDO BAYU SATRIYA

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Having 5+ years' experience as lecturer in a university in Indonesia; teaching and doing research related to electromagnetic, antenna design and signal processing. Currently a second year PhD student in University of Florida, working in RF Circuit and System Laboratory. Taking some coursework's related to Electromagnetic and RF such as advanced electromagnetics, advanced antenna system, RF IC, and metamaterial.

PERSONAL INFORMATION

Date of birth : May 19th, 1989
Nationality : Indonesia
Research interest : RF Circuit & System; Electromagnetic; Antenna

EDUCATION

- 2021 – now **Currently a PhD student in Electrical and Computer Engineering, University of Florida**
Field of Study: RF Circuit and System
Dissertation Topic: *RF/ Microwave System for Biomedical Applications, i.e. Body Fat Measurement*
Advisor: Dr. Y.-K. Yoon, Dr. Jenshan Lin
- 2012 – 2014 **Master of Electrical Engineering, Institut Teknologi Sepuluh Nopember**
Field of Study: Multimedia Telecommunication
Thesis : *The Effect of Linear Polarized Electromagnetic Exposure from Mobile Phone to SAR in Human Head with Various Incident Angles*
GPA : 3.67
- 2007 – 2011 **Bachelor of Electrical Engineering, University of Jember**
Field of Study: Telecommunication
Final Project : *Design of Metro Ethernet Remote Switching based on ATMega in PT Telekomunikasi Indonesia, Jember Area*
GPA : 3.55

WORKING EXPERIENCE

- 2015 – now **Lecturer in Department of Electrical Engineering, University of Jember**
Taught Electromagnetic, Antenna and Radio Propagation, Signal and System
- 2018 – 2019 **Head of Control System Laboratory, University of Jember**
- 2018 **Visiting Professor at California Polytechnic State University (CalPoly) San Luis Obispo, United States of America**
October - December 2018
- 2010 **Internship as network engineer** in PT. Telekomunikasi Indonesia, Telecommunication Infrastructure Division, Jember Area,
June - August 2010

PUBLICATIONS

Journal:

- **A. B. Satriya**, S. Agustini, "Face Recognition using Modified Triangle Method," *Journal of Information Technology (INTEGER) Vol 2 no 1*, published by the Faculty of Information Technology, Adhi Tama Institute of Technology Surabaya, 2017.
link: <https://ejurnal.itats.ac.id/integer/issue/view/7>

Proceeding:

- **A. B. Satriya**, E. Setijadi, "An Analysis Method of Effect of Linear Polarized Electromagnetic Exposure from Mobile Phone to Human Head with Various Incident Angles," *Proceeding of International Conference on Information Technology and Electrical Engineering*, Yogyakarta, Indonesia, 2013.
link: <https://ieeexplore.ieee.org/document/6676250/>
- A. R. Chaidir, **A. B. Satriya**, G. D. Kalandro, "Design of A Gripping Imitator Robotic Arm for Taking An Object," *International Conference on Information and Communication Technologies (ICoICT)*, Bandung, Indonesia, 2016.
link: <https://ieeexplore.ieee.org/document/7571940/>
- I. Fibriani, Sumardi, **A. B. Satriya**, S. B. Utomo, "Colour Based Image Processing Method for Recognizing Ribbed Smoked Sheet Grade," *The International Conference on Information Technology and Digital Applications (ICITDA)*, Yogyakarta, Indonesia, 2016.
link: <https://iopscience.iop.org/article/10.1088/1757-899X/185/1/012025>
- **A. B. Satriya**, O. Setyawati, Taufik, "Method of Moment Analysis of Truncation Number in a Homogeneous Spheroid Model," *International Conference on Computational Science and Computational Intelligence*, Las Vegas, USA, 2018.
link: <https://american-cse.org/csci2018/pdfs/CSCI2018-3OvSIHpbnpvCh7wjFqa17/1gKw0gohhL5ARqnKel0w2w/4tsV42UhUA4fseTilcglYZ.pdf>
- Taufik, O. Setyawati, **A. B. Satriya**, "Flexible Computer Simulation for Power Loss Analysis of Direct AC LED Drive System", *International Conference on Computational Science and Computational Intelligence*, Las Vegas, USA, 2018.
link: <https://american-cse.org/csci2018/pdfs/CSCI2018-3OvSIHpbnpvCh7wjFqa17/1eOoEfBocuxSUGLpC3WBOI/4i8L4an4TyHqjyOtuAzWE9.pdf>

Book:

- Alfredo B. Satriya, Undergraduate Teaching Book: Antenna and Electromagnetic Propagation, written in Bahasa Indonesia "*Antena dan Propagasi Gelombang Elektromagnetik*", UNEJ Press, Jember, Indonesia, 2018. ISBN: 978-602-5617-61-4

HONORS AND GRANTS

1. Granted a government scholarship for Doctoral Degree from LPDP Ministry of Finance Indonesia in 2020
2. Granted a competitive graduate scholarship for Master Program from Ministry of Higher Education Indonesia in 2012
3. Granted a competitive undergraduate scholarship from PT. DJARUM in 2008
4. Awarded as a best student of Faculty of Engineering, University of Jember in 2010
5. Best undergraduate of Faculty of Engineering, University of Jember with *Cum-Laude* predicate in July 2011

SKILLS

1. Simulation software:
 - a. High Frequency Structure Simulator (**HFSS**): ★★★★★☆
 - b. **Antenna Magus**: ★★★★★☆
 - c. **Matlab**: ★★★★★☆
 - d. **Cadence**: ★★★★★☆
2. Active English, **IELTS: 7.0**
3. Optic Fibre Splicing