

Cahyo Mustiko Okta Muvianto

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Professional profile

Currently research in Communication techniques particularly- Microwave sensors based and its applications which I pursued though my study at The University of Manchester. During my study, I worked on developing several microwave sensors and implementing the sensors on various types of industrial applications especially for multiphase flow meter. As a Lecturer and researcher at the University of Mataram, Indonesia, I was teaching Antennas and RF Circuit and designing Microwave Sensor as part of research associate task.

Education and Qualifications

- 2012** : Doctor of Electrical Engineering and Electronics, The University of Manchester, United Kingdom
Degree Awarded : PhD. Thesis : Microwave Sensors and Applications
- 2001** : Master of Communication Engineering, UMIST , Manchester, United Kingdom
Degree/Diploma Awarded : MSc. *Dissertation* : Microwave Circuit for Active DRA Antenna
- 1995** : Sarjana Satu (S1) in Telecommunication Engineering, ITS, Surabaya, Indonesia.
Degree/Diploma Awarded : ST (Sarjana Teknik). *Skripsi (Project Report)* : Design Square Helix Antenna Array 2x2 at C Band
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Work Experiences

- 1998-now** : Lecturer at the Department of Electrical Engineering, Faculty Engineering, the University of Mataram, Indonesia
Job Descriptions: Teaching, Researching and Conducting community service.
- 2013-2014** : Research Associate at University of Manchester, Manchester - UK.
Job Descriptions: Designing microwave sensor for food quality assessment as part of Flexible Robotic Systems for Automated Adaptive Packaging of Fresh and Processed Food Products
- August,2013** : Guest Lecture at wuhan university of technology (WHUT), China.
Job Descriptions: giving tutorial and supervising master student.
http://ssci.whut.edu.cn/content_xygk.asp?id=2155&lanmuName=
- 2007** : Operation Manager of PT. TRI TUNGGA UTAMA MATARAM ,ISP, Internet Service provider.
Job Descriptions: Managing
- 2006** : The Head of Team for designing and installing the WAN fiber optics, The University of Mataram, Indonesia
Job Descriptions: Designing, Implementing and Managing
- 2005** : The Head of Team for SCADA Radio installation, PT PLN, NTB Indonesia
Job Descriptions: Designing and Installing
- 1995-2000** : The Operation Manager of PT Telecall, Radio paging
Job Descriptions: Managing engineers, accounting and marketing

Academic Honors, Distinctions and Prizes

- 2008-2012** : PhD student scholarship, The Department of Higher Education, The Ministry of National Education, Indonesia.
- 2005** : MSc. student scholarship. EEDP, The Department of Higher Education, Indonesia.

Research

Research interest covers the area of communication technologies, Microwave engineering, Microwave sensors and applications

Publication

- ✧ M. Aqeeli, Zhirun Hu, Cahyo Muvianto, " A 6.72GHz Low-Phase-Noise Voltage Controlled Oscillator Adopting Metal-Oxide-Metal Capacitors Using 130nm CMOS Technology" the 2013 Fifth IEEE International Conference on Computational Intelligence, Communication Systems and Networks, pp.101 – 106, 2013.
- ✧ M. Aqeeli, Zhirun Hu, Cahyo Muvianto, " Design of a Novel 6.68GHz Low-Phase-Noise VCO Adopting Metal-Oxide-Metal Capacitors Using 130nm CMOS Technology" the IEEE Electron Devices Poster Conference, pp.26, 2013.
- ✧ M. Aqeeli, Z. Hu, X. Huang, A. Alburaikan, C. Muvianto, " Low-Power and Wideband LC-VCO for WiMAX in CMOS Technology" UKSim-AMSS 16th International Conference on Computer Modelling and Simulation, pp. 553-557, 2014.
- ✧ M. Aqeeli, A. Alburaikan, C. Muvianto, X. Huang, Z. Hu "An Ultra-Wideband and Gain Linearized CMOS VCO with Minor Phase Noise Variation" 2014 IEEE Asia Pacific Microwave Conference, 2014.
- ✧ M. Aqeeli, Z. Hu, X. Huang, A. Alburaikan, and C. Muvianto "An Ultra-wideband and Low Phase Noise LC-VCO Using NMOS Varactor with MOM Digital Capacitor Switching Arrays" 35th Progress In Electromagnetics Research Symposium, pp. 386-389, 2014.
- ✧ M. Aqeeli, A. Alburaikan, C. Muvianto, X. Huang, Z. Hu "A Novel Wide Tuning Range LC-VCO with Small Phase Noise Variation "The IEEE 11th Vehicular Technology Society Asia Pacific Wireless Communications Symposium, 2014.
- ✧ M. Aqeeli, A. Alburaikan, C. Muvianto, X. Huang, Z. Hu "A wideband and gain linearized voltage controlled oscillators with small phase noise variation in 90nm CMOS " Journal of circuits, systems and computers, 2014.
- ✧ W. Pramudito, A. Nugroho, **C. Muvianto**, "Low Cost Communication System for Remote Area Deployment," the UoM-IEEE Electron Devices Poster Conference on, pp.26, 12 June 2013, Manchester, UK.

Teaching

- ✧ Antenna
- ✧ RF circuit
- ✧ Electromagnetics

Software Expertise

- ✧ Matlab for DAQ and signal processing
- ✧ CST, HFSS, and ADS for RF microwave passive/active circuit computation and design
- ✧ Protel for circuits board design and fabrications

Personal details

Driving License	Full/Clean
Health	Excellent; non-smoker
Languages	Fluent English

References

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Prof.Ir. Suwardji, M.App.Sc., PhD

The Vice Rector - The University of Mataram Indonesia.

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