



Cahyo Mustiko Okta Muvianto, ST., MSc., Ph.D

Microwave Communication Sensor Technology

Telecommunication Engineering	Institut Teknologi Surabaya, Surabaya	1989 - 1995
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Master of Communication Engineering	UMIST, Manchester, United Kingdom	2000 - 2001
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Doctor of Electrical Engineering an Electronics	Manchester University, United Kingdom	2008 - 2012
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Employment	Lecturer Undergraduate's program in Electrical Engineering, Engineering Faculty	University of Mataram, Indonesia	Feb, 1998
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Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Detection of sweetness level of mangoes using microwaves technique (Internal Funds – 2019) 2. Detection of fruit Caterpillars in honey mango using microwaves technique (Internal Funds – 2018) 3. Synthesis of the use of VNWA as a measuring liquid material (Case study of Lombok honey content coefficient) (Internal Funds – 2017) 4. Smart MAP technology prototype innovation for climateric fruit stroge (Dikti Funds – (2019-2020) 5. Design of mangosteen quality detection tool using microwave ceramic dielectric resonators (2021) 6. Optimization of prototype Non Sestructive Testing (NDT) microwave sensor for mangosteen quality test (2021)
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Industry collaborations / Community Services over the last 5 years	<ol style="list-style-type: none"> 1. Installation of Backup Power Line Sources at Madrasah Tsanawiyah Al-Mubasysyrun North Lombok (2019), community services 2. Audio system Installation at Al Mubasysyrun Islamic Boarding School, Pemenang District, North Lombok Regency (2019) , community services 3. Audio System Quality Improvement at Al Huda Mosque, Gunungsari Village, West Lombok District (2018) , community services 4. Installation of Automatic Inverter As Backup Electricity For Al Huda Mosque (2018) , community services 5. Giving Supervision and Conseling on Positive Use of Mobile Phone at Elementary School 32 Mataram (2017) , community services
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Patents and proprietary rights

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Important publications
over the last 5 years

1. Design of microstrip band pass filter using square open loop resonator method based on defected ground structure for digital television transmitter (2022)
2. Assistance in the creation of mangosteen digital data at the Bina Mandiri Farmers Group in Nyiurbaye Gawah Hamlet, West Lombok (2021)
3. Application of ultrasound assisted extraction for local variety garlic oil production (2021)
4. Mangosteen flesh condition detector based on microwave non-destructive technique using spiral resonator sensor's (2020)
5. Digital audio system management at Al-Istiqomah Mosque Bangket Tengah Puyung Village, Central Lombok (2021)
6. Utilization of UV-C chamber as disinfectant for personal protective equipment to prevent the spread of corona virus (2020)
7. Mango characterization based on dielectric value using double-ring resonator technique (2020)
8. Addition of output power to loudspeakers and school bells at Batukliang Junior High School 5, Central Lombok Regency 9 (2020)
9. Cantenna Modification Design For 2.4 GHz Grid Antenna Feed Optimization (2020)
10. Detection of sugar content in mango fruit using coaxial cavity resonator (2020)
11. Audio installation to support the educational process at Al Mubasysyirun Islamic Boarding School, Pemenang District, North Lombok Regency (2020)
12. Detection of sugar content in mango fruit using coaxial resonator (2019)
13. Optimization of grid antenna 2.4 GHz using grid reflector and Yagi antenna's feed modification (2018)
14. Design of digital TV buffers working at band III VHF (DVB-T2) frequency for campus TV broadcasts (2017)
15. Analysis and design of a triple band metamaterial simplified CRLH cells loaded monopole antenna (2017)
16. A Data-Oriented M2M messaging mechanism for industrial IoT applications (2017)
17. Desain and realization of microstrip antenna for GPS application using proximity Coupled Techniques (2017)

Activities in specialist
bodies over the last 5
years