

CURRICULUM VITAE

A. Personal Identity

1. Full Name (with Titles) : Dr. Ir. Totok Mujiono, MIKom.
2. Functional Position : Lecturer
3. Structural Position : -
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B. Educational Background

	Undergraduate	Postgraduate	Doctoral
Name of Institution	Institut Teknologi Sepuluh nopember (ITS)	Universitas Indonesia (<i>University of Indonesia</i>)	Institut Teknologi Tokyo (<i>Tokyo Institute of Technology</i>)
Field of Study	Electrical/Electronics	Computer Science	Elektronika fisik
Year of Enrollment - Graduation	1983 - 1988	1988 -1990	2013 - 2016

C. Deskripsi Singkat Penelitian yang relevan dengan Pengembangan Keilmuan Prodi

Biosensor engineering based on Quartz Crystal Microbalance (QCM) transducer and optics for gas and fluid detections. The sensor engineering activities includes the development of sensor components and sensor system based on microprocessor or low-powered and portable FPGA.

D. Research Experience within the Last Five Years

No	Year	Research Title	Source of Funding
1	2013 - 2016	Rekayasa biosensor fluoresens optic untuk deteksi cairan sianida. (<i>Optical Fluorescence Biosensor Engineering for Liquid Cyanide Detection</i>)	Independent
2	2016 - 2017	Rekayasa sensor VOC (volatile organic compound) berbasis QCM terlapis graphene (<i>VOC(Volatile Organic Compound) Sensor Engineering Based on Graphene-coated QCM</i>)	ITS Postgraduate Research
3	2018 - 2019	Teknik pelapisan QCM untuk biosensor (<i>QCM coating Technique for Biosensors</i>)	Departemen Teknik Elektro
4	2019 - 2020	Rekayasa sensor QCM array untuk deteksi aroma (bau) (<i>QCM Array Sensor Engineering for Scent Detection</i>)	Post-doctoral Research in Tokyo Institute of Industrial Research
5	2020 - 2021	Biosensor fluoresens optic berbasis <i>olfactory receptor</i> untuk deteksi bau. (<i>Optical Fluorescence Biosensor Based on Olfactory Receptors for Scent Detection</i>)	Independent

E. Community Service Experience within the Last Five Years

No	Year	Title of Community Service
1	2020	Pelatihan system digital dan IOT untuk mendukung smart pesantren secara online dimasa pandemic covid-19 untuk siswa dan guru sma trensains tebuireng jombang (<i>Digital System and IoT Online Training in Support for Smart Boarding School during Covid-19 Pandemic for Students and Teachers of Trensains Senior High School in Tebuireng, Jombang</i>)
2	2018-2019	Membimbing Mahasiswa KKN-ITS (<i>Supervise Students for ITS Student Study Service</i>)

F. Experience Writing in the Journal of Scientific Articles Within the Last Five Years

No	Scientific Article Title	Vol/No/Year	Title of Journal
1	Carbon Monoxide Sensor Based on Non-Dispersive Infrared Principle	1201/1/2019	Journal of Physics
2	Sensitivity improvement by applying lock-in technique to fluorescent instrumentation for cell-based odor sensor	29/1/2017	Sensors and Materials
3	Development of automated flow measurement system for cell-based odor sensor	100/9/2016	Electronics and Communication in Japan
4	Lock-in measurement technique in fluorescent instrumentation system for cell-based odor sensor	136/3/2016	IEEJ transaction on sensor and micromachine

5	Spatially parallelized lock-in measurement technique for cell-based odor biosensor	41/9/2016	Chemical senses
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G. Experience on Oral Delivery of Paper on a Conference/Seminar within the Last Five Years

No	Name of Conference	Scientific Article Title	Time and Place
1	ISITIA 2019	QCM Coating With rGO Material as a Platform Developing Piezoelectric Biosensor	Surabaya, 2019
2	2017 ISOCS/IEEE International Symposium on Olfaction and Electronic Nose	Development of digital lock-in image detection system and its application to odor discrimination using cell-based sensor array	Montreal, 2017
3	10th Asian Control Conference (ASCC)	Odor sensing method using olfactory receptors and fluorescent instrumentation	Kota Kinabalu, 2015

H. Experience on Book-Writing within the Last Five Years (Modul in soft form – My classroom)

No	Book Title	Year	No. of Pages	Publisher
1	-			

I. Experience on Training Program

No	Name of Training Program	Time and Place	Organizer
1	-		

J. Acquisition of Intellectual Property Rights within the Last Five to Ten Years

No	Title/Theme of Intellectual Property Rights	Year	Type	Registration Number
1	-			

K. Experience in Formulating Other Public Policy/Social Engineering within the Last Five Years

No	Title/Theme/Type of Already Implemented Social Engineering	Year	Place of Implementation	Public Response
1	-			

L. Awards within the Last Ten Years (from the Government, Associations, or other Institutions)

No	Type of Awards	Awarding Institution	Year
1	-		

All of the filled data dan written in the personal identity are true and can be accounted legally. If in the future, a discrepancy occurs, I will accept the risk.

Surabaya, 14 September 2020

DR. IR. TOTOK MUJIONO, MIKOM