

# **──** DWI CAHYONO **─**

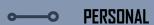
High Frequency, Radar, Embedded System, Wireless Communication Technology, and IoT enthusiast

#### •—• CONTACT •—•

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Muelheim an der Ruhr, 03.05.2018

Dwi Cahyono

### **WORK EXPERIENCES**

03/2017 -	Research Assistant		
now	Digital Signal Processing Institute, Uni Duisburg-Essen		
	<ul> <li>Signal Processing</li> </ul>		
	<ul> <li>Wideband Channel Measurement</li> </ul>		
09/2016-	Lab. Analyzer ( <i>Studentische Aushilfe</i> )		
11/2016	Lyondell Basell, Wesseling.		
	<ul> <li>Gather gas sample</li> </ul>		
	<ul> <li>Analyze gas sample</li> </ul>		
01/2011-	Coord. of Research Assistant		
02/2013	Telkom University, Indonesia		
	<ul> <li>Nanosatellite Project of liNUSAT-1, S-Band</li> </ul>		
	Ground Station		

# **EDUCATIONS**

10/2013- 08/2018	Master of Science in Embedded System Engineering Universität Duisburg-Essen, Germany				
	• Into	ernet (	of Things		
	• Wir	eless	Communication	ı Technology	
08/2009-	Bachelor	of	Electrical	Telecommunication	
02/2013	Engineering				
	Institut Tekn	Institut Teknologi Telkom (Telkom University), Bandung			
	Indonesia				

# INTERNSHIPS AND SEMINARS

07/2017	Workshop & Course
	CST Studio Suite simulation at RF-Days, Bochum
07/2017	Workshop
	Measurement from Rohde & Schwarz at RF Days,
	Bochum .
07/2017	Workshop
	Empire XPU theory and simulation, IMST GmbH at
	RF Days, Bochum
08/2015	Summer Workshop
	CubeSat (Small Satellite) Developer Workshop 2015,
	Utah State University, Logan, USA.
10/2014	International Internship
	Synthetic Aperture Radar (SAR) Satellite, focussing
	on SAR Image Interpretation. SOKENDAI, Japan
	Aerospace and Exploration Center (JAXA), Tokyo,
	Japan

#### *NR/2013* International seminar and Conference

Space Technology (Recent Advance in Space Technology), Istanbul, Turkey, 2013. Used tools: Matlab, Xilinx, Altera, FPGA board, raw camera, Altium, PCR

02/2013

**Asian Winter School** 

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Sekondai Campus and JAXA (Japan Aerospace and Exploration Center), Sagamihara, Kanagawa, Japan

# **SELECTED PROJECTS**

03/2018 **Master Thesis** 

> "Impact of Antenna Directivities on the Multipath THz Channel". Key topics: THz channel model, 350 GHz Horn (and lens) and phased array antenna design, Antenna misalignment with Gaussian Antenna channel model, Hybrid beamforming for THz channel. Used tools: Matlab, CST Microwave Studio.

 $\Pi 7 / 7 \Pi 17 -$ Tera50+ project

> mm-Wave for communication (channel measurement), Duisburg. Used tools: Matlab, CST Microwave Studio, measurement Tools (VNA, DSA, Osciloscope, etc).

04/2017-Student Project

06/2017 Self-Organizing Embedded System Middleware project for IoT Application. Used tools: Photon particle board, Raspberry Pi, C, Cloud service

01/2009-Spacecraft Nanosatellite project

Remote Sensing Payload on Nanosatellite 02/2013 INUSAT-1, INSPIRE Indonesia, Used tools: Matlab, Xilinx, Altera, Althium, PCB board fabrication.

 $\Pi I/2\Pi II$ **Ground Station Nanosatellite project** 

> The S-Band Ground Station Rotator Controller for Remote Sensing Nanosatellite INUSAT-1. (paper publication: Surabaya, Indonesia). Used tools: Matlah. microcontroller board.

08/7017**Bachelor Thesis** 

> "Design and Realization OBDH of Remote Sensing Payload

for Nanosatellite FPGA Based". Paper publication: ITS conference 2012, Bangkok, Thailand

#### PERSONAL SKILLS

# Computer Skills

Matlab, VHDL, C, Latex Programming 20 Windows, Linux Design Corel Draw, CST Microwave Studio, Altium Designer Web Wordpress, HTML, CSS Data bank MySQL Raspberry Pi, Arduino, Microsoft Azure, 6LoWPAN Technology development

# Technology Skills

Wireless Antenna Design, Channel Model, Digital and Communication Analog Signal Processing, Satellite, EM Measurement System

FPGA, ARM, Middleware, Internet of Things, Embedded System Computer & Parallel Architecture, Cloud

Computing

# Language Skills

Indonesian (Native) English (Advance) German (B2 level)

# Interrests and Hobbies

New technologies, Mobile Communication, IoT, Sport (Football, Badminton), Travelling, Painting.