Dicky Adhitya Dwiantoro

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EDUCATION

2015 – 2017: Master Degree of **Global Navigation Satellite System (GNSS),** at **Ecole Nationale de l'Aviation Civile (ENAC), Toulouse, France**

2009 – 2014: Bachelor degree of Engineering Physics **at Faculty of Industrial Technology, Bandung Institute of Technology (ITB), Indonesia**

Bachelor Thesis Project - *Prototype System Vision for Dynamically Rail Wear Inspection*.

SKILLSET

GNSS (GPS, Galileo, GLONASS, QZSS), SBAS, GNSS Remote Sensing (RO & Reflectometry), GNSS-Receiver Architecture, Signal Processing, Digital Communication, RF System, INS, Astrodynamics

PROFESSIONAL EXPERIENCE

GNSS Engineer at GNSS Technologies Inc. Japan, period: May 2018-Present

***Role*:**

- Assisted in reviewing technical specifications of GNSS base station and GNSS antenna for Japanese Nationwide RTK (Real-Time Kinematic) project.
- Provide technical assistance to the Global Business Development Team for overseas business decision-making.
- Conducted testing on several GNSS products such as Swift Multi-Piksi and JAVAD Delta-3N (RTK-Scenario), NAVCOM SF-3050 Starfire (PPP Scenario), Septentrio AsteRx-U, and GNSS Simulator Spectracom GSG-6.
- LiDAR Acquisition data with RIEGL VUX-1UAV with NovAtel IMU-ISA-100C (Odaiba and Rainbow Bridge Route scanning).

Project AIRBUS "FLY YOUR IDEAS" 2017 Student Competition (TOP 5 FINALISTS) – Compact Luggage Strategy Boarding Method, period: September 2016 – May 2017 (8 Month)
Objective: Develop new boarding system to assign boarding status to passengers based on their luggage size in order to reduce seat and aisle interference inside the airplane.
Role: Built simulation model of airplane boarding using Anylogic Software, built MATLAB program to calculate boarding time, and developed database server of passengers using MySQL.

Internship at M3 Systems, period: February 2017-August 2017 (6 Month)
Objective: Conducted research of signal acquisition and tracking techniques of GNSS receiver for Radio-Occultation (RO) application, implement the most suitable one for the RO scenario and assess its performance in the GNSS Post-Correlation Simulator (MATLAB-based).

Applied Project GNSS Reflectometry, period: October 2016 (4 Month)
Objective: Developed the existing GNSS bistatic remote sensing method in MATLAB to obtain useful meteorological information by using the Earth reflected GNSS signal.

Applied Project GPS L1 C/A Receiver, period: November 2016 (3 Month)
Objective: Built MATLAB code to acquire GPS L1 C/A signal using Fast Fourier Transform (FFT) search algorithm.

Applied Project PVT (Position, Velocity, Time) Computation, period: November 2015 (3 Month)
Objective: Computed PVT (Position, Velocity, Time) of the receiver located in ENAC using least square method with applying all necessary correction to the pseudorange model (using MATLAB).

Joint Research Functional Endoscopic Sinus Surgery (FESS) SIMULATOR Faculty of Medicine University of Indonesia (UI) – Engineering Physics ITB – UNC (University of North Carolina) School of Medicine.
Period: November 2013 (4 Month)
Objective: Designed and implemented augmented reality approach and algorithm using KINECT device and software Unity3D to create an interactive functional endoscopic sinus surgery to help train apprentice surgeon to master the surgical technique.

LANGUAGE	English (Fluent), France (DELF B1-Intermediate), Japanese (Basic)
COMPUTER	MATLAB, Python, Git, RTKLIB, gnuplot, Teqc, and RTL-SDR.
ACTIVITIES	President of Indonesian Student Association in Toulouse, France (2015-2016)