

# Fandi A. Wiranata

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in <https://www.linkedin.com/in/fandi-a-wiranata/>

👤 <http://fandiazam.github.io/>

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## RESEARCH INTERESTS

Computer **Systems**, **Cloud** Computing, Wireless Communication **Networks** (i.e. LTE, 5G, Wifi) and SDN&NFV

## EDUCATION

2018 - School of Electrical Eng. and Informatics, **Institut Teknologi Bandung (ITB)**, Bandung, Indonesia.

Present Undergraduate in Telecommunication Engineering, GPA 3.54 out of 4.0.

## PUBLICATIONS

2020 **Fandi A. Wiranata**, Wervyan Shalannanda, Rahmat Mulyawan, and Trio Adiono. **Automation of Virtualized 5G Infrastructure Deployment Using Mosaic 5G Operator over Kubernetes Supporting Network Slicing** in International Conference on Telecommunication Systems, Services, and Applications (TSSA'14).

## SKILL CERTIFICATION

<b>Cloud Computing</b>	<b>HCIA - Cloud Computing</b> from <b>Huawei</b> . Capable of collaborating in the deployment and O&M of cloud computing with virtualization technology.	2020
<b>Cloud Service</b>	<b>HCIA - Cloud Service</b> from <b>Huawei</b> , have mastered cutting-edge knowledge and skills of public cloud and are proficient in using Huawei cloud service products.	2020
<b>Artificial Int. (AI)</b>	<b>HCIA - AI</b> from <b>Huawei</b> . Capable of using AI, ML/DL and other technologies to achieve the design, development and innovation of AI products and solutions.	2020

## EXPERIENCE

Jan 2021	<b>AUN-KU Winter Course at Kyoto University</b> – Kyoto, Japan <ul style="list-style-type: none"><li>Student Mobility Program toward Human Security Development (HSD) that's designed for undergraduate students to study the concept of HSD and Energy Science.</li><li>As one of 25 selected students from 10 countries of the ASEAN Uni. Network (AUN).</li></ul>
Sep 2020 – Oct 2020	<b>Internship at Xirka Silicon Technology Inc.</b> – Bandung, Indonesia <ul style="list-style-type: none"><li>Developed Virtualized 5G Infrastructure using OpenAirInterface (OAI) on Xirka resources. The Virtualized 5G Infrastructure also support Radio slicing.</li><li>Supervised by Prof. Trio Adiono.</li></ul>
Jul 2020 – Aug 2020	<b>Research Internship at NTUST</b> – Taipei, Taiwan <ul style="list-style-type: none"><li>Worked on Mosaic5G Project to integrate Mosaic 5G with several platforms (OAI, Kubernetes, ElasticSearch, and Operator SDK) to create virtualized 5G infrastructure.</li><li>Supervised by Prof. Ray-Guang Cheng.</li></ul>
Jan 2020 – Mar 2020	<b>Pre-Research Intern at NTUST</b> – Bandung, Indonesia <ul style="list-style-type: none"><li>This is a remote research mentorship program for talented International students in collaboration at BMW Lab, NTUST.</li><li>Focused on studying LTE and 5G Architecture and having weekly report and assignment that teach me to stay productive. Supervised by Prof. Ray-Guang Cheng.</li></ul>
Jun 2019 - Present	<b>Telecommunications Student Association</b> – ITB <ul style="list-style-type: none"><li>Be the part of the highest executive organization at Telecommunications Engineering major who manage and run students.</li><li>I made exercise books to improve student academic.</li></ul>
Oct 2018 - Present	<b>Syamsi Dhuha Foundation (SDF)</b> – Bandung, Indonesia <ul style="list-style-type: none"><li>SDF is an NGO that care on lupus and low vision.</li><li>Managed and run the biggest World Lupus Day and World Sight Day celebrations in Indonesia.</li></ul>

## TEACHING ASSISTANT

ET2103	<b>Electric Circuit Course, at ITB.</b>	
	<ul style="list-style-type: none"> <li>Given 2 hours/week to teach 2<sup>nd</sup>-year students the fundamentals of electric circuit.</li> <li>I made exercises for students, Under Dr. Eng. Achmad Munir, S.T., M.Eng.</li> </ul>	2020
EL1200	<b>Introduction to Circuit Analysis Course, at ITB.</b>	
	<ul style="list-style-type: none"> <li>Given 2 hours/week to teach 1<sup>st</sup>-year students the basic concepts of electric circuits.</li> <li>I made exercises for students, Under Dr. Eng. Achmad Munir, S.T., M.Eng.</li> </ul>	2020

## COMPETITIONS

1 <sup>st</sup> Place	National	<b>Huawei - ICT Competition at Cloud Track, won USD2500. Next, representing Indonesia's Cloud team for Regional Asia-Pacific.</b>	2020
3 <sup>rd</sup> Place	Regional	<b>Huawei ICT Competition Preliminary Stage at Cloud Track. Representing ITB's Cloud Team for National level.</b>	2020
3 <sup>rd</sup> Place	National	<b>Paper Writing Competition at State University of Surabaya. We built a reactor to improve pollution filtration which include monitoring systems.</b>	2020
1 <sup>st</sup> Place	International	<b>Sustainability Drives Innovation at University of Malaya, Malaysia. We created a green paddle efficiency design to improve the performance of boat.</b>	2020
3 <sup>rd</sup> Place	International	<b>Idea Competition (Hackathon) at ITB. We built an IoT system to solve the garbage problem by Integrating Eco-Friendly Trash Can and GoTrash App.</b>	2019
1 <sup>st</sup> Place	National	<b>Essay Writing Competition at ITB. We initiated a system to optimize waste that is Integrated Waste Quality Monitoring System.</b>	2019
1 <sup>st</sup> Place	National	<b>Industrial Engineering Scientific Fest at U. of Singaperbangsa Karawang. We initiate the use of snails as aggressive periodontitis prevention materials.</b>	2019
4 <sup>th</sup> Place	National	<b>Industrial Engineering Scientific Fest at U. of Singaperbangsa Karawang.</b>	2019
Semifinalist	National	<b>Paper Writing Competition at Indonesian Institute of Sciences (LIPI). Top 20 out of 3500 papers in social and behavioral sciences topic.</b>	2017
Finalist	National	<b>Industrial Automation and Robotic Competition at Institut Teknologi Sepuluh Nopember (ITS).</b>	2016
Finalist	National	<b>Paper Writing Competition at Indonesian Institute of Sciences (LIPI). We built a tool to optimize industry's air pollution filtration using Ca(OH)<sub>2</sub>.</b>	2016
Semifinalist	National	<b>Paper Writing Competition at Diponegoro University, Semarang.</b>	2015
1 <sup>st</sup> Place	National	<b>Paper Writing Competition at State Polytechnic of Malang. We built a tool that utilize gravity and gear optimization to create renewable electricity.</b>	2015

## AWARDS

Scholarship	<b>Granted scholarships for monthly expenses</b> from Syamsi Dhuha Foundation.	2020
Scholarship	<b>Granted a full scholarship for my tuition fees</b> during my study in Institut Teknologi Bandung. The details can be looked at the official website: <a href="http://www.itbuntuksemua.com">www.itbuntuksemua.com</a> .	2018

## COURSE PROJECTS

<b>Design and Optimization</b> of Slotted Microstrip Antenna for 3.8-4.0 GHz Application.	2020
<b>LoVi: Blind Assistance System for Low Vision with Distance and Voice Alerts Using Deep Learning.</b>	2020
<b>Smart Parking System</b> : Monitor and Control the Parking Lot.	2019

## TECHNICAL SKILLS

<b>ML/AI</b>	Tensorflow
<b>IoT</b>	Worked in projects using <b>Arduino</b> and <b>NodeMCU</b>
<b>PL</b>	Experienced in projects using <b>Arduino IDE, C, Python, Haskell, and Golang</b>
<b>Database</b>	Familiar with <b>Hadoop, Hive, and MySQL</b>
<b>DevOps</b>	<b>Huawei-Cloud, Kubernetes, Docker, OpenAirInterface, and Mosaic5G</b>
<b>Networking</b>	<b>Routing &amp; Switching and Cloud Computing</b>