

# Fandi A. Wiranata

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Research Interests: Wireless Communication Networks and Signal Processing.

## EDUCATION

2018 - Institut Teknologi Bandung (ITB), Bandung, Indonesia  
Present Telecommunications Engineering Undergraduate, School of Electrical Engineering and Informatics.  
3rd Year.

## 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).

## TALKS

2020 **Automation of Virtualized 5G Infrastructure Deployment Using Mosaic 5G Operator over Kubernetes Supporting Network Slicing** at International Conference on Telecommunication Systems, Services, and Applications (TSSA) in Bandung, Indonesia.

## EXPERIENCE

- Jan 2021

AUN-KU Winter Course at Kyoto University (Accepted)

Exchange student- Kyoto, Japan

  - Student Mobility Program toward Human Security Development (HSD) that's designed for undergraduate students to study the concept of HSD and Energy Science.
  - As one of 25 selected students from 10 countries that are members of the ASEAN University Network (AUN).
- Sep 2020 – Oct 2020

Internship at Xirka Silicon Technology

Internship student- Bandung, Indonesia

  - Developed Virtualized 5G Infrastructure using OpenAirInterface (OAI) on Xirka resources
  - The Virtualized 5G Infrastructure also support Radio slicing
- Jul 2020 – Aug 2020

Research Internship at NTUST, Taiwan

Research student– Taipei, Taiwan

  - Worked on Mosaic5G Project. Mosaic 5G is an ecosystem of open-source projects for studying, building, and sustaining open flexible and integrated 5G networks.
  - The general idea of this project is to integrate Mosaic 5G with several platforms, i.e. OAI, Kubernetes, ElasticSearch, and Operator SDK to create virtualized 5G infrastructure.
  - Supervised by Prof. Ray-Guang Cheng.
- Jan 2020 – Mar 2020

Pre-Research Intern at NTUST, Taiwan

Research student– Bandung, Indonesia

  - This is a remote research mentorship program for talented International students in collaboration at BMW Lab, NTUST.
  - 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.
- Jun 2019 - Present

Telecommunications Student Association

Member of academic division- ITB

  - Be the part of the highest executive organization at Telecommunications Engineering major who manage and run students.
  - I made exercise books to improve student academic.
- Oct 2018 - Present

Syamsi Dhuha Foundation

Member (Volunteer) - Bandung, Indonesia

  - Syamsi Dhuha Foundation (SDF) is an NGO that care on lupus and low vision. SDF was awarded Sasakawa Health Prize 2012 for having innovative programs.
  - Managed and run the biggest World Lupus Day and World Sight Day celebrations in Indonesia. Inspired the other members to keep doing their best although they have some disease that restrict their ability.

## TEACHING ASSISTANT

ET2103	<b>Electric Circuit Course</b> , at ITB.	2020
	<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 exercise and homework for students every week, Under Dr. Eng. Achmad Munir, S.T., M.Eng.</li></ul>	
EL1200	<b>Introduction to Circuit Analysis Course</b> , at ITB.	2020
	<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 exercise and homework for students every week, Under Dr. Eng. Achmad Munir, S.T., M.Eng.</li></ul>	

## COMPETITIONS

1 <sup>st</sup> Place	<b>Huawei ICT Competition National Level at Cloud Track</b> (i.e. Cloud Computing, Cloud Service, Big Data, storage, and AI). Next, <b>representing Indonesia's Cloud team for Regional Asia-Pacific.</b>	2020
3 <sup>rd</sup> Place	<b>Huawei ICT Competition Preliminary Stage at Cloud Track</b> (i.e. Cloud Computing, Cloud Service, Big Data, storage, and AI). <b>Representing ITB's Cloud Team for National level.</b>	2020
3 <sup>rd</sup> Place	<b>National Paper Writing Competition</b> at State University of Surabaya. We built a <b>reactor</b> to optimize industry's air pollution filtration using NaOH supporting <b>monitoring and alert systems.</b>	2020
1 <sup>st</sup> Place	<b>Sustainability Drives Innovation</b> at <b>University of Malaya, Malaysia.</b> We created a green paddle efficiency design to improve the performance of boat.	2020
3 <sup>rd</sup> Place	<b>International Idea Competition</b> at Bandung Institute of Technology (ITB). We built an IoT system to solve the garbage problem with Integrating The Eco-Friendly Trash Can and GoTrash Application. <b>International Level.</b>	2019
1 <sup>st</sup> Place	<b>National Essay Writing Competition</b> at Bandung Institute of Technology (ITB). We initiated a system to optimize waste that is <b>Integrated Waste Quality Monitoring System.</b>	2019
1 <sup>st</sup> Place	<b>Industrial Engineering Scientific Fest'19</b> at University of Singaperbangsa Karawang, Indonesia. We initiated a Snails ( <b>Achatina Fullica</b> ) Application as <b>Aggressive periodontitis</b> Prevention Materials ( <b>Bone Graft</b> ).	2019
4 <sup>th</sup> Runner up	<b>Industrial Engineering Scientific Fest'19</b> at University of Singaperbangsa Karawang, Karawang, Indonesia.	2019
Semifinalist	<b>National Paper Writing Competition</b> at Indonesian Institute of Sciences ( <b>LIPI</b> ). As one of 20 selected papers from 3500 papers in social and behavioral sciences topic.	2017
Finalist	<b>Industrial Automation and Robotic Competition</b> at Institut Teknologi Sepuluh Nopember (ITS).	2016
Finalist	<b>National Paper Writing Competition</b> at Indonesian Institute of Sciences ( <b>LIPI</b> ). We built a tool to optimize industry's air pollution <b>filtration</b> using Ca(OH) <sub>2</sub> .	2016
Semifinalist	<b>National Paper Writing Competition</b> at Diponegoro University, Semarang.	2015
1 <sup>st</sup> Place	<b>National Paper Writing Competition</b> at State Polytechnic of Malang, Indonesia. We built a tool that utilize gravity and gear optimization to create <b>renewable electricity.</b>	2015

## ACHIEVEMENTS

Scholarship	<b>Granted scholarships for monthly expenses</b> from the following organizations: SDF (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

## SKILL CERTIFICATION

Cloud Computing	<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
Cloud Service	<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
Artificial Intelligence	<b>HCIA-AI</b> from <b>Huawei</b> . Capable of using AI, machine learning, deep learning and other technologies to achieve the design, development and innovation of AI products and solutions.	2020

TECHNICAL SKILLS

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

I declare the details stated to be true and complete.  
(CV updated on December 26, 2020)