




Fandi A. Wiranata

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RESEARCH INTERESTS

Area of interests : Computer System, Cloud Computing, Wireless Communication Networks (i.e. LTE, 5G, Wifi) and SDN&NFV
Preferred Faculty : 1. Prof. Haryadi Gunawi
2. Prof. Monisha Ghosh
Able to start working : January 2021

EDUCATION

2018 - **Institut Teknologi Bandung (ITB)**, Bandung, Indonesia
Present Telecommunications Engineering Undergraduate, School of Electrical Engineering and Informatics. 3rd year, GPA 3.54 out of 4.0.

PUBLICATIONS

2020 **Fandi A. Wiranata**, Weryan 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.

TEACHING ASSISTANT

ET2103 Electric Circuit Course, at ITB.
○ Given 2 hours/week to teach 2nd-year students the fundamentals of electric circuit. 2020
○ I made exercises for students, Under Dr. Eng. Achmad Munir, S.T., M.Eng.

EL1200 Introduction to Circuit Analysis Course, at ITB.
○ Given 2 hours/week to teach 1st-year students the basic concepts of electric circuits. 2020
○ I made exercises for students, Under Dr. Eng. Achmad Munir, S.T., M.Eng.

EXPERIENCE

Jan 2021 | **AUN-KU Winter Course at Kyoto University**
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 Inc.**
Internship student- Bandung, Indonesia
○ Developed Virtualized 5G Infrastructure using OpenAirInterface (OAI) on Xirka resources. The Virtualized 5G Infrastructure also support Radio slicing.
○ Supervised by Prof. Trio Adiono.

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 study-ing,

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.

COMPETITIONS

1 st Place	Huawei ICT Competition at Cloud Track (i.e. Cloud Computing, Cloud Service, Big Data, storage, and AI), won USD2500. Next, representing Indonesia's Cloud team for Regional Asia-Pacific.	National	2020
3 rd Place	Huawei ICT Competition Preliminary Stage at Cloud Track (i.e. Cloud Computing, Cloud Service, Big Data, storage, and AI). Representing ITB's Cloud Team for National level.	Univ. Level	2020
3 rd Place	Paper Writing Competition at State University of Surabaya. We built a reactor to optimize industry's air pollution filtration using NaOH supporting monitoring and alert systems.	National	2020
1 st Place	Sustainability Drives Innovation at University of Malaya, Malaysia. We created a green paddle efficiency design to improve the performance of boat.	Internat.	2020
3 rd Place	Idea Competition (Hackathon) 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.	Internat.	2019
1 st Place	Essay Writing Competition at Bandung Institute of Technology (ITB). We initiated a system to optimize waste that is Integrated Waste Quality Monitoring System.	National	2019
1 st Place	Industrial Engineering Scientific Fest'19 at University of Singaperbangsa Karawang, Indonesia. We initiated a Snails (Achatina Fullica) Application as Aggressive periodontitis Prevention Materials (Bone Graft).	National	2019
4 th Place	Industrial Engineering Scientific Fest'19 at University of Singaperbangsa Karawang, Karawang, Indonesia.	National	2019
Semifinalist	Paper Writing Competition at Indonesian Institute of Sciences (LIPI). As one of 20 selected papers from 3500 papers in social and behavioral sciences topic.	National	2017
Finalist	Industrial Automation and Robotic Competition at Institut Teknologi Sepuluh Nopember (ITS).	National	2016
Finalist	Paper Writing Competition at Indonesian Institute of Sciences (LIPI). We built a tool to optimize industry's air pollution filtration using Ca(OH) ₂ .	National	2016
Semifinalist	Paper Writing Competition at Diponegoro University, Semarang.	National	2015
1 st Place	Paper Writing Competition at State Polytechnic of Malang, Indonesia. We built a tool that utilize gravity and gear optimization to create renewable electricity.	National	2015

AWARDS

Scholarship	Granted scholarships for monthly expenses from the following organizations: SDF (Syamsi Dhuha Foundation).	2020
Scholarship	Granted a full scholarship for my tuition fees during my study in Institut Teknologi Bandung. The details can be looked at the official website: www.itbuntutksemua.com .	2018

SKILL CERTIFICATION

Cloud Computing	HCIA-Cloud Computing from Huawei . Capable of collaborating in the deployment and O&M of cloud computing with virtualization technology.	2020
Cloud Service	HCIA-Cloud Service from Huawei , have mastered cutting-edge knowledge and skills of public cloud and are proficient in using Huawei cloud service products.	2020
Artificial Intelligence	HCIA-AI from Huawei . Capable of using AI, machine learning, deep learning and other technologies to achieve the design, development and innovation of AI products and solutions.	2020

COURSE PROJECTS

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

RELEVANT COURSEWORK

Discrete Mathematics	(A)	Continuous-Time Signal Processing	(A)
Digital System Design	(A)	Computer Networks	(A)
Advanced Programming	(A)	Analog and Digital Communication System	(A)
Engineering Mathematics	(A)	Communication Electronics	(A)

TECHNICAL SKILLS

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

I declare the details stated to be true and complete.
(CV updated on January 16, 2021)