Bariq Sufi Firmansyah

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EDUCATION

Bandung Institute of Technology (ITB)   **Bandung, Indonesia**
Bachelor of Engineering in Telecommunications   Aug 2016-Present
- **Coursework**: Electric Circuit (A), Probability and Statistics (A), Engineering Mathematics (A), Continuous-Time Signal Processing (A), Discrete-Time Signal Processing (A), Computer Networks (A), Analog and Digital Communication System(A)
- **Research Interests:** Wireless Communications, Signal Processing
- **CGPA:** 3.73 out of 4.0 (Best CGPA in Telecom Eng. class of 2016)

EXPERIENCES

Research Assistant   **Bandung, Indonesia**
Radiotelecommunications and Microwave Laboratory, Bandung Institute of Technology   Sept 2019-Present
- Leading a team of 7 assistants and assisting Discrete-Time Signal Processing experiment to telecommunications engineering students

Network Engineer Intern   **Batam, Indonesia**
Inmarsat Indonesia   Jul 2019-Sept 2019
- Troubleshot API (Application Programming Interface) problems in Inmarsat M2M (Machine-to-Machine) service. Developed GUI desktop app that allows for API testing and troubleshooting client problems in M2M service.

Exchange Student   **Warsaw, Poland**
Faculty of Electronics and Information Technology, Warsaw University of Technology   Feb 2019-Jul 2019
- One of two students nominated by Bandung Institute of Technology (ITB) to study in Warsaw University of Technology for one semester. Got the best score in Telecommunications System and Network course (99 of 100).

Exchange Participant   **Tokyo, Japan**
University of Electro-Communications (UEC)   Oct 2019
- Got a chance to visit UEC research laboratories, JAXA (Japan Aerospace Xploration Agency), and NAIST under Sakura Science Program organized and fully funded by Japan Science and Technology Agency.

Head of Media and Communication Department   **Bandung, Indonesia**
Rebana Student Association (URI), Bandung Institute of Technology   Sept 2018-Jan 2019
- Rebana Student Association (URI) is student association that specializes in rebana (Rebana is a musical instrument from Indonesia) performance. Announced URI concert and successfully attracted more than 200 attendants.

AWARDS AND ACHIEVEMENTS

Undergraduate Scholarship   **Jakarta, Indonesia**
Recipient   Jul 2017-Jul 2020
- Selected for the undergraduate scholarship supported by Ministry of Education of Indonesia, with full funding that covers tuition fees, book expenses, and monthly stipend.
- Scholarship value: USD2200 per year for 3 years.

Erasmus+ International Credit Mobility Scholarship   **Warsaw, Poland**
Recipient   Feb 2019-Jul 2019
- Selected for the Erasmus+ scholarship supported by European Union during my exchange period in Warsaw University of Technology with full funding that covers tuition fees, travel expenses, and monthly stipend.
- Scholarship value: EUR3500.

Telecommunications Engineering Best Student Award   **Bandung, Indonesia**
Top 3 Students   Feb 2019
- Selected as one of the three winners of the best student award. Selected based on academic performance, extracurricular achievements, and research contributions.

Engineering Development, Motivation, and Awareness Training University of Malaya   **Kuala Lumpur, Malaysia**
Best Performer   Feb 2019
- Team-based competition that elaborates engineering idea and its business aspects.
- Our team created solution to the conventional parking system by designing the new concept of smart parking system.

PROJECTS

ODFM Transceiver using USRP E310

- Implement OFDM algorithm in USRP E310 using Matlab. Succesfully sent and received 1179648 bits image file without any errors.

Water Monitoring System using Remote-Controlled boat

- Camera-equipped Raspberry-Pi boat to monitor water environment. The boat can be remote-controlled from ground station.

SKILLS & TEST SCORES

Languages: Indonesian (native), English (excellent).
Technical Skills: C, Java, MATLAB.
Standardized Test Scores: TOEFL : 563 out of 677