

BENITA ANGELA TITALIM

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EDUCATION

April 2021 - March 2023 | Japan Advanced Institute of Science and Technology

Master of Science (Information Science)

Supervisor : Masashi Unoki

Research Topic : Study on Speech Intelligibility Prediction Method for Hearing-Impaired Listeners

August 2015 - October 2019 | Institut Teknologi Bandung

Bachelor of Science (Electrical Engineering)

Advisor : Widyawardana Adiprawita

Research Topic : Sensing System and Protection Circuit on Hybrid On-board Generator System for Rotary Wing Drone

EXPERIENCE

Japan Advanced Institute of Science and Technology in Sakti Laboratory, Japan

Researcher | May 2023 - Present

- Managed end-to-end process of organizing and analyzing datasets for research purposes
- Deploy existing projects to make it accessible for public use
- Contribute to upcoming projects focused on speech recognition and signal detection

Japan Advanced Institute of Science and Technology in Unoki Laboratory, Japan

Research Student | October 2020 - April 2021

- Study on the basic speech signal processing and its trend based on psychoacoustics model
- Research on related works to the speech enhancement algorithm
- Research on the hearing loss perception and hearing aid development

PT. Satunol Mikrosistem, Indonesia

Junior Embedded Developer | November 2019 - August 2020

- Develop optimization technique that reduced RAM usage by 30%
- Contribute to the design and implementation of an IoT-based environment monitoring system

PCI Limited, Indonesia

Intern | June 2018 - August 2018

- Design electrical circuit for the smoke and gas detection project
- Collaborate with firmware team with agile project management

Institut Teknologi Bandung, Indonesia

Physics Laboratory Assistant | February 2017 - May 2017

- Assist the first-year students with basic physics experiments

ORGANIZATIONAL EXPERIENCE

Bandung Hymn Society

Alto choir member | 2017 - 2020

Electrotechnical Student Association

Tressury staff | 2016 - 2017

Head of Workshop in EEDAYS Event | 2017

PUBLICATION

- Candy Olivia Mawalim, **Benita Angela Titalim**, Shogo Okada, Masashi Unoki, "**Auditory Model Optimization with Wavegram-CNN and Acoustic Parameter Models for Nonintrusive Speech Intelligibility Prediction in Hearing Aids**," 31st European Signal Processing Conference (EUSIPCO) 2023, Helsinki, Finland, June 2023. (accepted on May 2023)
- Candy Olivia Mawalim, **Benita Angela Titalim**, Masashi Unoki, & Shogo Okada, "**OBISHI: Objective Binaural Intelligibility Score for the Hearing Impaired**," International Conference on Speech Science and Technology (SST) 2022, Canberra, Australia, December 2022.
- **Benita Angela Titalim***, Candy Olivia Mawalim*, Shogo Okada, Masashi Unoki, "**Speech Intelligibility Prediction for Hearing Aids Using Auditory Model and Acoustic Parameters**," Asia-Pacific Signal and Information Processing Association (APSIPA) 2022, Chiang Mai, Thailand, November 2022.
- Muhammad Fathoni Nurrohman*, **Benita Angela Titalim***, Teddy Hadi Utama*, Widyawardana Adiprawita, "**Design and Implementation of On-board Hybrid Generator for Rotary Wing Drone**," International Conference on Electrical Engineering and Informatics (ICEEI) 2019, Bandung, Indonesia, July 2019.

* : equal contribution and joint lead authorship

SCHOLARSHIP

Monbukagakusho Scholarship

Master Student | March 2021 - March 2023

Research Student | October 2020 - March 2021

RESEARCH INTEREST

healthcare IT, assistive technology, UI/UX design, artificial intelligence

SKILLS

- ✓ **Programming languages** : C/C++, Python, Java
- ✓ **Web Design** : HTML, CSS, JavaScript, Node.js, React.js
- ✓ **Operating System** : Windows. Linux
- ✓ **Electronic & electrical engineering** : MATLAB & Altium
- ✓ **Graphical** : Photoshop, Adobe Illustrator, Corel Draw

LANGUAGES

- | | |
|------------------------------------|------------------------------|
| ✓ Bahasa Indonesia : Native | ✓ English |
| ✓ Japanese : JLPT N3 | TOEIC : 915 |
| ✓ Chinese : Basic | TOEIC S&W : 170 (S), 190 (W) |

HOBBY

- ✓ Singing
- ✓ Photography & editing
- ✓ Playing video games