Dao Luna

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EDUCATION

RUHR BOCHUM UNIVERSITY
MSc in Computational Engineering
2021 - 2023 | Bochum, Germany

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE
Digital Signal Processing Specialization
2020 - Recent | Coursera

KYUSHU UNIVERSITY
BS in Earth Resources, Marine and Civil Engineering
2015-2019 | Fukuoka, Japan

COURSEWORK

COURSERA
Machine Learning
Neural Networks and Deep Learning

SIDE PROJECTS

ZULIP
Created a chat bot reacting and replied to particular messages.

PATH FINDER
Developed a shortest path finder based on Dijkstra's algorithm.

SKILLS

PROGRAMMING
Over 2000 lines:
C • C++ • CSS • Matlab • Python
Familiar:
HTML • Dart • LaTeX • Javascript • Linux

LANGUAGE
Vietnamese: Native
English: IELTS 7.5
Japanese: JLPT N2

EXPERIENCE

TRILOGY TECHNOLOGIES PTE. LTD | Software Engineer
Oct 2020 - Present | Singapore
- Lead and develop Bluetooth smart watch to measure physiological parameters.
- Implement Digital Signal Processing algorithm to derive the values from sensors with different serial communication protocols.
- Contribute to develop a gateway for multiple protocols including bluetooth, wifi, zigbee, lora.
- Create the MQTT platform to store and visualize the data from smart watch.
- Experience with schematics, component data sheet and electronic test equipment.

KYUSHU UNIVERSITY | Undergraduate student
Oct 2018 – Aug 2019 | Fukuoka, Japan
- Worked with **Guangqi Chen** to classify Pulse-like ground motion using Matlab to learn the directional feature of slope failure by Discontinuous Deformation Analysis (DDA).
- Modified the DDA algorithm to be accurate on complicated models.

NIPPON KOEI RESEARCH AND DEVELOPMENT CENTER | Research Intern
Sep 2018 – Sep 2018 | Ibaraki, Japan
- Collect real data for the simulation model.
- Built a simulation model and ran analysis using PFC 2D.

YACHIYO ENGINEERING CO., LTD | Engineering Intern
Aug 2018 – Aug 2018 | Haiphong, Vietnam
- Studied the technical drawings, retaining wall calculation and its construction process.
- Prepared and participated in weekly meetings on the process among the stakeholders.

AWARDS

2015-2019   Monbukagakusho MEXT Scholarship

PUBLICATIONS

[1] G. Chen, M. Xia, D. T. Thuy, and Y. Zhang. A possible mechanism of earthquake-induced landslides focusing on pulse-like ground motions. *Lanslides*, 2020.