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EDUCATION

Nanyang Technological University, Singapore **Aug 2022 - Dec 2026**

Bachelor of Engineering (Electrical and Electronics Engineering) GPA: - (Freshman)

- Research Team in MLDA@EEE (Machine Learning and Data Analytics lab)
- Tech Director in Thai Student Society Singapore

ACADEMIC RESEARCH

Parallel curves detection method based on Hough Transform, *Leading author* **Jul 2020 - Dec 2021**

see abstract: <https://www.math.science.cmu.ac.th/tjcdcg3/Book-abstract.pdf#page=135>

- Presented at 23rd TJCDG3 (Thailand-Japan Conference on Discrete and Computational Geometry, Graphs, and Games)
- Proposed an algorithm for detecting irreducible parallel curves in the images
- Performed simulation studies using both synthetic and real world images

High school graduation project - Application of deeply supervised CNN with attention mechanism in Ischemic Stroke Lesion Segmentation **May 2020 - Jun 2021**

- Proposed a technique to enhance training of U-net algorithm with attention integrated deep supervision, increased the performance (Dice coefficient) from 0.461 to 0.551
- Validated the results in high-class imbalance dataset and the proposed technique demonstrated tolerance to high-class imbalance

HONORS AND AWARDS

ASEAN Scholarship **Aug 2022**

- Issued by Nanyang Technological University

Silver Medal in 52nd International Physics Olympiad (IPhO) **Jul 2022**

- Issued by International Physics Committee

Bronze Medal in 22nd Asian Physics Olympiad (APhO) **May 2022**

- Issued by Asian Physics Committee

5th Place in Thailand Cyber Top Talent 2021 **Oct 2021**

- Organized by National Cyber Security Agency (NCSA) Thailand and Huawei Thailand

PROJECT

SaraTree (Participating in HackVCIS, 36-hour Hackathon) **Mar 2022**

- 1st place in education track and 3rd place overall
- Designed and prototyped a platform for interactive learning

Guitar Tab Generator **Jun 2021 - Oct 2021**

- Prototyped a React web application for converting an input song file to guitar tab using Web Audio API

SKILLS

Language: English, Thai

Programming Language: C, C#, C++, Python, JavaScript, TypeScript

Web Development: React.js, Chakra UI, TailwindCSS, Git, Cypress, Three.js

Others: Unity, Tensorflow, Keras, OpenCV