

# Phan Trung Kiet

Fuhua Secondary School, Singapore  
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## EDUCATION

Fuhua Secondary School (Jan 2023 – Oct 2024)	Singapore
Le Quy Don High School for the Gifted (Jun 2022 – Nov 2022)	Danang, Vietnam
Nguyen Luong Bang Secondary School (Aug 2018 – May 2022)	Danang, Vietnam
• GPA: 9.8/10 (Top 1/396 students)	

## SCHOLARSHIPS

- ASEAN Scholarship – Singapore Ministry of Education (2023 - 2026)
- YALA Platinum Scholarship – Singapore International Math Contests Centre (2023)
- FPT Software Computer Talents Club – FPT Corporation, Viet Nam (2020 – 2023)

## HONORS

- Awarded the top in the cohort for Physics and Mathematics at Fuhua Secondary School (2023)
- First Prize in the XXIV Huynh Thuc Khang Talent Encouragement Award, Danang City (2021 – 2022)
- Achieved the Prize “Student Award for Outstanding Achievement” of Danang City, (2021 – 2022)
- Achieved the Prize “Student Award for Outstanding Achievement” of Danang City, (2020 – 2021)
- Valedictorian of Nguyen Luong Bang Secondary School (2021 – 2022)
- Ranked 1<sup>st</sup> in the 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup> grade of Nguyen Luong Bang Secondary School (2018 – 2021)

## ACADEMIC AWARDS

### *International Level*

- Gold Award for Mind Sport Challenge and Silver Award for Math Olympiad Contest in the Singapore International Math Olympiad Challenge (SIMOC) 2023
- Gold Award in the Singapore Math Global Final (SMGF) 2023 (Global 2)
- Gold Award in the Singapore and Asian Schools Math Olympiad (SASMO) 2023
- High Distinction Award in the International Kangaroo Math Contest (IKMC) 2022
- Gold Awards in the American Mathematics Olympiad (AMO) 2021, 2022 (Global 1)

### *National Level*

#### **Singapore**

- Silver Medal in the Singapore Mathematical Olympiad (SMO) 2024 – Open Category
- Gold Medal in the Singapore Mathematical Olympiad (SMO) 2023 – Senior Category
- Silver Medals in the 26<sup>th</sup>, 27<sup>th</sup> Singapore National Olympiad in Informatics (NOI) 2023, 2024
- Bronze Medal in the Singapore Junior Physics Olympiad (SJPhO) 2024
- Honourable Mention in the Singapore Physics League (SPhL) 2024
- Second Place – Best Engineering Design Award in Regular (Secondary) Category of National Robotics Competition (NRC) 2023

#### **Vietnam**

- Silver Medals in the Vietnam Mathematical Talent Challenge 2019, 2021
- Third Prizes in the Vietnam Youth Information Technology Competition 2020, 2022
- First Prizes in the Olympiad in Informatics in Vietnam Central – Central Highlands 2021, 2022

### *City Level*

- First Prizes in the Danang Science and Engineering Fair 2021, 2022
- First Prizes in the Danang Youth Information Technology Competition 2021, 2022 (for High School students – excess level)
- First Place in the Competition of Informatics for Excellent Students of the Danang City 2021
- First Place in the Competition of Mathematics for Excellent Students of the Danang City 2021

## LEADERSHIP EXPERIENCE & EXTRACURRICULAR ACTIVITIES

• Fuhua Secondary School, 2024	<i>Assistant Class Monitor</i>	Singapore
• Le Quy Don High School for the Gifted, 2022	<i>Vice Monitor</i>	Vietnam
• Nguyen Luong Bang Secondary School, 2019 – 2022	<i>Vice Monitor</i>	Vietnam
• Danang Science and Engineering Fair, 2022	<i>Team Leader</i>	Vietnam
• Semi-finalist U-Invent Season 5, VNUK Sep 2022 – Oct 2022	<i>Team Leader</i>	Vietnam
• Crest Award – Silver level - STEM course at LYDINC	<i>Team Leader</i>	Vietnam
• Class's Football Club, 2023 – 2024	<i>Captain</i>	Singapore
• Young Achievers Leadership Academy (YALA) Camp 2023	<i>Participant</i>	Indonesia

## WORK AND RESEARCH EXPERIENCE

**Fuhua Robotics Club - Singapore National Robotics Competition** **Singapore**  
*Participant* Jan 2023 – Apr 2024

- Researched robot building and construction. Learned about robot movements, turns and algorithms.
- Coded programs (using LEGO Mindstorms app) for the robot to perform tasks automatically.

**Ngee Ann Polytechnic Social Innovation Hackathon** **Singapore**  
*Participant* Apr 2023 – June 2023

- Researched the lives of the elderly in Singapore, their problems, and solutions.
- Found out that the elderly may feel lonely and isolated.
- Created a prototype for an app that can help them to save their memorable moments by taking photos, connecting with other seniors, and widen their social circle, leading a happier life.

**Semi-finalist U-Invent Season 5, VNUK Institute for Research and Executive Education - The University of Danang** **Danang, Vietnam**  
*Team Leader* Sep 2022 - Oct 2022

- Created an app to help people monitor the number of dengue cases in their area. The app also provides information on how to prevent dengue and offers resources related to the disease.
- Additionally, it assists patients in recovering from dengue at home, if possible.

**Youth-On! Hackathon 2023, VNUK Institute for Research and Executive Education - The University of Danang** **Danang, Vietnam**  
*Team member* Nov 2023 - Dec 2023

- Thought-to-speech conversion system for post-stroke patients and individuals with speech impairment.
- Leveraged Electroencephalography (EEG) technology to support post-stroke patients and individuals with speech impairment in communication.
- Planned to develop a compact, portable system capable of quickly translating thoughts into speech. The goal was to foster social integration for individuals with disabilities.

**Crest Award – Silver level** **Danang, Vietnam**  
*Team Leader* June 2023

- Trained in a STEM course at LYDINC Institute of Engineering – Technology.
- Project: "Design of System to Monitor Domestic Water Quality Indicators."
- Studied surface water pollution in Danang City.
- Researched methods to assess domestic water quality in Danang and developed a device and monitoring system to support water management and raise stakeholder awareness.

**Danang Science and Engineering Fair** **Danang, Vietnam**  
*Team Leader* Sep 2021 – Mar 2022

- Researched related materials about theories of Deep Learning, Mobile App Development, Cloud, Server, API. Collected data about various types of typical and popular corn diseases.
- Trained models that can recognize corn diseases via images.
- Designed an app to take photos of corn leaves and detect health issues or diseases.
- Wrote a scientific report. Presented and defended the research topic.

## Danang Science and Engineering Fair

Individual

Danang, Vietnam

Sep 2020 – Mar 2021

- Researched basic theories of Deep Learning and Python app development.
- Created fruit data to train a model for recognizing different fruit types.
- Designed and created an app that can be applied in the automatic fruit selling machine to help the sellers operate their business smoother.
- Wrote a scientific report. Presented and defended the research topic.

## Hackathon Contest 2022

Participant

FCT Club, Vietnam

July-2022

- Created a website that is exclusively for FCT Club members to study, discuss, and share knowledge about computing, math, and many other interests.
- Took responsibility for the front-end of the website.
- Won Second Prize in the Camp 2022 Hackathon.

## Arduino Contest 2021

Individual

FCT Club, Vietnam

Nov-2021 - Feb-2022

- Created a weather station that can send temperature, pressure, and sky brightness to the website that the owner can monitor.
- Implemented weather station using ESP32 microcontroller, LDR, BMP180 sensor, LED, and buzzer. Used Python to control the operation of the machine.
- Presented the research topic.

## ADDITIONAL COURSES

#	Course Name	School/Author	Org. unit
1	Mathematics for Computer Science	MIT	MIT Open Learning Library
2	Python for Everybody	PY4E	PY4E
3	Introduction to CS and Programming using Python	MIT	EDX
4	How to Code - Simple Data	UBC	EDX
5	How to Code – Complex Data	UBC	EDX
6	Programming Languages, Part A	UW	Coursera
7	Programming Languages, Part B	UW	Coursera
8	Programming Languages, Part C	UW	Coursera
9	Arduino Contest 2021 Contest	FCTC's Teacher	FCTC

**Note:** Massachusetts Institute of Technology (MIT); The University of British Columbia (UBC); The University of Washington (UW); FPT Software Computer Talents Club (FCTC).

## SPORTS

- First Prize (2023) and Second Prize (2024) in the Football Competition of Fuhua Secondary School
- Second Prize in the Table Tennis Competition of Lien Chieu District 2020
- Third Prize in the Table Tennis Competition of Nguyen Luong Bang Secondary School 2020

## INTERESTS

- Playing sports: table tennis, football, badminton, swimming, and martial arts.
- Listening to music; Cooking; Coding (C++, Python); Math.

## REFERENCES

Mr. Raymond Loh

Form Teacher

Singapore

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