TRAN MAC DANG DANH

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24B, 64/67 Thai Thinh, Dong Da, Ha Noi

EDUCATION

Nguy	en Truong To Secondary School	2021-2022	
GPA	9th Grade: 9.6		
Kim l	Lien High School	2022-2025	
GPA	10th Grade: 9.4 11th Grade: 9.5		
Stand	lardized Test Scores		
•	• IELTS: 8.0 (Reading: 9 Listening: 9 Writing: 7 Speaking: 6.5)		
•	• SAT: 1540 (Math: 790 Verbal: 750)		
•	• AP Calculus BC: 5 AP Computer Science A: 5		
<u>HON</u>	NORS AND AWARDS		
1.	Gold Medal - International Innovation Show INNOVA in Croatia	2024	
2.	Gold Medal - AIJAM US	2024	
3.	2nd prize for District excellent student at Physics		
	2021		
4.	3rd prize for City excellent student at Physics	2021	
5.	Golden Medal - AIGC	2022	
6.	1st prize for School excellent student at Physics	2022	
<u>PER</u>	SONAL PRODUCTS & RESEARCH		
1.	Main Author, Landslide detection system	2024	
	 Developed a landslide detection system using Arduino to monitor terrain early warnings. 	stability and provide	
2.	Co-author, Improvements of the classification of flowers using deep neural ne	etworks with various	
	solver optimization algorithms - IEEE XPlore Journal - to be published in 20.	<i>25.</i> 2024	
	 Designed deep neural networks for precise classification of flower specie image analysis 	es through advanced	
3.	Developer, Parkinson Spoon for Hand Tremors	2022	
	 Designed a stabilizing spoon to assist individuals with hand tremors using 	g Arduino.	
4.	Developer , Intelligent Oil-Collecting Robot for Marine Environment	2024	
	 Developed an intelligent robot for efficient oil collection in marine environment. 	onments.	
5.	Developer, Smart History Guide	October, 2024 - Present	

o Researching Smart History Guide, platform for learning Vietnamese history through interactive

and engaging content.

6. **Team Member**, Melanoma Cancer Prediction Project

October 2023 – April 2024

1 IDEA 1 WORLD International Innovation, Design, and Startup Competition, Turkey

- Developed a predictive model for early melanoma diagnosis using 10,000+ images, enhancing accuracy with modified EfficientNetV2 models.
- Earned recognition at the 1i1w competition for innovative cancer diagnostics, emphasizing early detection to improve patient outcomes.
- 7. **Developer,** AI JAM 2024, United States, Project: "AIoT Air Quality Monitoring" August, 2024
 - Developed an AI and IoT-based system for real-time air quality monitoring and analysis, contributing to environmental health and safety.

LEADERSHIP

• **Socialet -** *Head of Logistic Department*

May, 2023 - Present

- Led a group of 24 members of the department and other members of the project to run a fundraising which created a profit of 2 million VND.
- **The Learcult -** *Vice-Head of Logistic Department / Co-founder*

August, 2023 - Present

- Team work to design the identity (logo, slogan, avatar) for the fanpage.
- Direct a total of 40 members of the project.

SOCIAL WORK & ACTIVITIES

1. Tuyen Quang High School for Gifted Student

July, 2023

- Educated young children with knowledge about programming and STEM.
- Inspired and instructed 36 young students to finish their first project with the Arduino system.
- 2. Ha Noi Social Protection Center 2

March, 2024

- Donated gifts and cash for nearly 300 patients.
- 3. **Ams Media -** *Active member*

December, 2023 - Present

- Collaborated with other members to run a fundraising which created a profit of 5 million VND for a charity trip to Viet Duc Hospital.
- 4. **High School's Help Kit** *Active member*

February, 2024 - Present

- Assisted in an event advising secondary school students about high school entrance exams.
- The event attracted nearly 1,000 attendees and was featured on national television.
- **5. BKSTAR** Assistant teacher
 - Provided support for students in AP Calculus BC and AP Computer Science A course.
- 6. Hoa Binh Orphanage Village Volunteer

September, 2024

• Lead a team of 20 volunteers to set up a charity trip for 50 children with Down syndrome.

SKILLS

- **Programming Languages:** Python, Java (AP Computer Science A), C++ (Arduino programming).
- Hardware and Electronics: Arduino, Embedded Systems Development, Sensor Integration.