HO TRAN CHAU THAO

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EDUCATION

Lawrence S.ting *Year: 2023 - 2024*

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GPA: Grade 9: 8,7 Grade 10: 9,0 Grade 11: 9,4

Score: SAT: IELTS: 7.0

HONORS AND AWARDS | Link

- **Silver Medal** | AI Challenge Contest - EcoGen 2026 | Faculty of Electrical and Electronics Engineering (FEEE), Ho Chi Minh City University of Technology and Education | June - July, 2026
- **Bronze Medal** | Ho Chi Minh City Vovinam Youth & Talented Martial Arts Championship | 2026
- **Gold Medal** | District-level Vovinam Martial Arts Championship | 2024

LEADERSHIP

Co-Founder | Cera Ment Start-Up Project | October, 2024 - Present | Fanpage | Images

A student-led creative organization promoting ceramic art through educational content, hands-on workshops, and social impact initiatives.

- Led the overall development and operations of Cera Ment, coordinating club members and creative projects while launching **1 educational content channel**, Clay Charmer, to introduce ceramic art and share pottery-making knowledge with a wider student community | **Youtube**
- Founded and managed Jewel Blind, a social impact initiative producing handcrafted ceramic jewelry, overseeing product development, fundraising campaigns, sales activities, and creative workshops while gaining hands-on experience in leadership, entrepreneurship, and project management.
- Sold 100 handcrafted ceramic bracelets and raised VND **5 million** for charitable initiatives, demonstrating measurable experience in fundraising, social entrepreneurship, product development, and community engagement.

Vice-President | Scam Aware | 202 - Present | Fanpage | Images | Certificate

A student-led initiative focused on promoting cybersecurity awareness, digital literacy, AI literacy, and online safety among students and the broader community.

- Led a 15-member team responsible for project operations, event planning, communications, and educational outreach, while expanding the initiative's digital presence to **1,000+** fanpage likes.
- Organized an AI & Cybersecurity Workshop for **50** participants, covering AI literacy, online scams, cybersecurity awareness, and practical digital safety skills
- Delivered multiple technology-focused education and community service programs, strengthening leadership, project management, communication, teamwork, and digital education skills while generating measurable impact across student and community initiatives.

Vice-President | We Are Your Eyes | 2024 - Present | Fanpage| Images | Certificate

A student-led social impact club dedicated to supporting people with visual impairments through music, cultural arts, creative workshops, and fundraising activities.

- Supported the club's mission of using **music, cultural arts, and creative activities to raise funds and provide support for people with visual impairments**, while coordinating club operations, members, fundraising activities, and community outreach programs.
- Organized **2 fundraising music nights**, music instrument classes, handcrafted jewelry sales, and jewelry-making workshops at community shelters, gaining hands-on experience in **event planning, fundraising, team coordination, communication, and social-impact project management**.
- Helped attract **100+ participants**, raise **VND 10+ million** for charitable activities, coordinate the donation of **100 essential-goods packages**, and grow the club's online community to **3.2K+ followers**.

Representative of the class | Family Representative Council of Lawrence S.ting | September, 2025, 2026 | Fanpage | Certificate

The organization represents students, acting as a bridge between students and teachers, the school, and other organizations to express their views and highlight the importance of students' voices in the school's development and direction.

- Representatives from the entire class **offered suggestions and reviewed positive ideas** aimed at **improving the school's teaching environment** and expertise in a suitable direction.
- **Analyze charts and information** from survey forms. Write **summary reports** from meetings and surveys. Understand how to **organize a discussion or meeting**.
- Comprising **32 delegates** from various classes, including a president and vice-president, organized **work directly with the school** and helped **students** have a voice in the learning environment.

Head Gen 1.0 | ASC Summer Camp | June, 2026 - Present | Fanpage | Images | Certificate

Adventure House's first summer camp program for local elementary school students in Dong Nai, designed to create a close-knit, experiential, networking learning environment. It focuses on three core subjects: Computer, English, and Skills Development.

- **Manages the members** and **activity plans** of each teaching and logistics team. **Records progress**, feedback, and **suggests changes** at each session to ensure smooth learning and easier learning for students.
- The summer camp **consisted of 17 students** and 5 supporting teachers. It helped **over 30 local children** gain access primarily to English and computer skills, and grew the club's online community to **179 followers**.

PERSONAL PRODUCT

Co-Programmer | *Road Monitor: Smart Subsidence Detection and Analysis for Greener Urban Mobility* | AI Challenge Contest - EcoGen 2026 | Faculty of Electrical and Electronics Engineering (FEEE), Ho Chi Minh City University of Technology and Education | June - July, 2026 | Github | Poster

- Collaborated in a 5-member team to develop Road Monitor, an AI-powered system using YOLO26n to detect potholes and support safer, more sustainable urban mobility, with Châu Thảo contributing to AI research and project development.
- Trained and evaluated the model on 665 public-dataset images, split into 70% training, 20% validation, and 10% testing, achieving 0.77 Precision, 0.73 Recall, and 0.75 F1 Score for pothole detection.
- Applied AI to environmental challenges by developing real-time pothole alerts and eco-routing concepts, with a 20-motorbike HCMC test reporting 38% lower idling and 22% lower fuel use, strengthening skills in deep learning, computer vision, data processing, and sustainable technology development.

Co-Programmer | Generative AI for Architectural Style Transformation | International Journal of Engineering and Information Systems (IJEAIS) | April – August, 2026 | Github

- Developed ArchStyleAI, a generative AI pipeline integrating Stable Diffusion v1.5, ControlNet with M-LSD line maps, and LoRA style adapters to perform architectural style transfer while preventing geometric distortion in columns and window grids.
- Evaluated model performance across Img2Img Strength parameters (0.60 to 0.90) on 50 Gothic facades, introducing a line-map SSIM metric to track structural fidelity (0.7562–0.7479) alongside CLIP Score (29.30–30.05) and LPIPS (0.4256–0.5149).
- Identified S = 0.75 as the optimal parameter default to balance aesthetic transfer strength with structural integrity, strengthening skills in generative diffusion models, computer vision evaluation, control pipelines, and architectural design automation.

RESEARCH

Researcher | Generative AI for Architectural Style Transformation | International Journal of Engineering and Information Systems (IJEAIS) | April – August, 2026 | Research paper | Research Paper | Certificate

- Conducted an independent **5,000-word** research paper over **5 months**, investigating the application of Generative AI to transform architectural styles while preserving the overall structural identity of buildings.
- Experimented with **2 Generative AI models, CycleGAN and Stable Diffusion**, to reinterpret architectural designs across multiple styles, including **Modern to Gothic** and **Traditional to Futuristic**, evaluating the balance between structural preservation and stylistic transformation.
- Strengthened expertise in Generative AI, computer vision, image-to-image transformation, and AI-generated content evaluation, developing a strong academic interest in Computer Science and Artificial Intelligence through independent research.

INTERNSHIP

AI Training Intern | Faculty of Electrical and Electronics Engineering, Ho Chi Minh City University of Technology and Education (HCMUTE) | July 2026 | Certificate | Images

- Participated in a 5-session AI Training Program, gaining foundational knowledge in Artificial Intelligence, Machine Learning, Python, and Computer Vision through hands-on training and engineering-focused applications.
- Applied Python, Google Colab, Pandas, and Matplotlib to process and visualize environmental datasets; practiced Classification, Regression, decision trees, and KNN while learning model training and accuracy evaluation.
- Developed and pitched a mini AI project focused on environmental applications, including waste classification and plant-condition recognition, gaining practical experience in data analysis, machine learning, computer vision, technical presentation, and mentor feedback.

Technology Intern | Saigon Hi-Tech Park (SHTP) Training Center | July 2026 | Certificate | Report | Images

- Participated in the Hi-Tech Youth Internship Program, gaining hands-on exposure to 4 technology modules: Artificial Intelligence, Robotics, Drone & UAV, and Electronics & Semiconductor Integrated Circuits, with a focus on practical technology applications and career exploration.
- Applied foundational knowledge through AI and Machine Learning activities, including image and object recognition, simple AI model development, real-time data classification, and AI accuracy optimization; also explored industrial applications through company visits and technology demonstrations.
- Collaborated in a 4–5 member team to develop and present a practical technology project, strengthening skills in technical problem-solving, teamwork, project development, presentation, and emerging technology research.

COMMUNITY SERVICE

Leader of creative | Hong Quang Orphaned Shelter | February, 2025, 2026 | Certificate | Images

Social work program providing creative education, academic support, experiments, and physical activities for orphaned children in Vung Tau.

- Led and coordinated the creative team, overseeing lesson planning, teaching assignments, and classroom activities for **30+** children.
- Developed teaching materials and monitored students' learning progress while coordinating **60** team members.

Volunteer | Children Art Exhibition x Lawrence S. Ting Foundation | August, 2025 | Certificate

Art exhibition showcasing works by children with disabilities, celebrating their creativity and diverse perspectives.

- Assisted visitors and introduced children's artworks and products across exhibition booths.
- Supported booth operations, exhibition layout, and 1 drawing contest, encouraging visitor participation.

OTHER ACTIVITIES

Full-Time Student Representative | Science Exchange Program LishanxBailing x Kiang Chao x Lawrence S. Ting | August, 2026 | Certificate | Images

Cross-cultural academic exchange focused on STEM education and scientific research.

- Represented students in **1** international STEM exchange program, collaborating with Taiwanese delegates through scientific discussions and academic workshops.
- Participated in cross-border presentations and peer-learning sessions, strengthening intercultural communication and collaborative problem-solving.

Representative of the Family Representative Council of LSTS | Leadership Camp in Lawrence S. Ting | June, 2026 | Certificate

The 3-day summer camp provides leadership training and education for representatives from each organization before officially beginning operations.

- One of the **student representatives participated** in the study, researching the characteristics of a leader. Contributed to **shaping the vision and goals** of the Family Representative Council of LSTS .
- Completed **3 days** of leadership training, developing skills in organizational management, strategic planning, and networking.

INTEREST, SKILL & HOBBIES

- **Skills:** Programming Languages & Libraries: Python, HTML, YOLO (v8/v10) & Developer and Design Tools: Google Colab, Git/GitHub, Kaggle for datasets.
- **Languages:** English
- **Hobbies:** Martial Arts: Vovinam (District Gold Medalist & City Bronze Medalist); Music & Arts: Piano (ABRSM Level 4), Guitar (Suzuki 3), Handcrafted Jewelry Making, Classical Poetry, Drawing, Badminton, Swimming