

Trinh Nam Khanh

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EDUCATION

Hanoi - Amsterdam High School for the Gifted, Hanoi, Vietnam

2022 - 2025

- Grade 10: 9.5 | Grade 11: 9.7
- IELTS: 7.5 (Listening: 8.0 | Reading: 9.0 | Speaking: 6.5 | Writing: 7.0)
- SAT: 1530 (Verbal: 770 | Math: 760)

HONORS & AWARDS

- **World Invention Creativity Olympic & Conference 2025** (July 2025)

Gold Award - AI activated robotic arm

- **Advanced Innovation Global Competition-Singapore 2025**(May 2025)

Gold Award - Detecting diabetes using machine learning through images retinography

- **INNOVA Croatia - 49th International Invention Show - 2025** (September 2025)

Zlato Gold Award - ECO SMART RAIL TRANSIT - AI - based railway safety monitoring system

- **City's competition of excellent students in mathematics grade 9**

Third prize

PUBLICATIONS/RESEARCH

International Journal of Scientific Research and Management

Article: Application of machine learning algorithms in prediction of hotel booking cancellation

PERSONAL PROJECT

Main Author, Air Sentinel - Air quality monitoring system integrated with smart tracking application

- Built with esp32 and IoT technology
 - collected and analyzed data from the environment
- designed a real time monitoring system.

LEADERSHIP EXPERIENCE

Community Service - SOS Children's Villages Hanoi

Summer 2025

- Teach 30 children to play chess
- Provided 1 ton of rice, 30 chess sets, 30 scholarships
- Organized plaster statue coloring event

Gifted household needs for family living there

SOCIAL WORK AND ACTIVITIES

Member of the Logistics Department for the Tiptoe Project 2024

Organizing online fundraising; preparing logistics; visiting children at Thai Nguyen Disabled Education Support Center; giving gifts; performing skits

Participated in tutoring at a famous math center in Hanoi for specialized math exam preparation

Teaching 9th grade geometry for entrance exams to specialized schools; contributing to curriculum
"Some Topics on Inequalities.

Member of the Logistics Department for the Society of Open Science Club

Taking charge of logistics; designing props; purchasing equipment; demonstrating experiments at schools around my cities. Organizing science events.

Member of the Logistics Department for the Science Fair 2024

Taking charge of logistics; designing props; purchasing equipment; demonstrating experiments at my school, with visitors from around the city.

Member of the Logistics Department for the Amstronomy Club

Designing props; purchasing equipment; organizing stargazing nights; preparing events to spread interest in astronomy.

Member of the Amstro's Gallery event

Create fun activities related to astronomy at school, with visitors from outside, taking charge of logistics; designing props; purchasing equipment; demonstrating experiments.

Member of the Expertise Department for Ams Chess Academy Club

Participating in chess competitions; organizing tournaments; teaching students around Hanoi; promoting strategic thinking and interest in chess.

Participation in the 2025 Summer Green Volunteer Campaign at Che Tao Commune, Lao Cai

Distributing medicine, blankets, and school supplies to households; performing cultural shows;

INTERESTS

- Soccer, Movies, Technology, Music