

**NGUYEN MINH TUAN**  
**12 MATH 1 HANOI-AMSTERDAM HIGH SCHOOL FOR THE GIFTED**

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### **EDUCATION**

- **Grade 10 GPA:** 9.5
- **Grade 11 GPA:** 9.6
- **Standardized Tests:**
  - IELTS: 7.5
  - SAT: 1550
  - AP Calculus BC: Taken with a score of 5
  - AP Computer Science A: Taken with a score of 5

### **HONORS & AWARDS**

- **"Advanced Innovation Global Competition 2025" competition**
  - **Topic:** AI-Powered Protective Gear Recognition System for Construction Site Safety
  - **Award:** Grand Prix Award
- **"1 Idea 1 World 2025" competition**
  - **Topic:** Smart Tree Monitoring System for Urban Tree Management
  - **Award:** Gold Medal
- **"INOVA 2025, 49th International Invention Show" competition**
  - **Topic:** ECO SMART RAIL TRANSIT - AI-based Railway Safety Monitoring System
  - **Award:** Gold Medal

### **RESEARCH EXPERIENCE**

- **Article's name:** IJSRM
- **Topic's name:** Applications and impacts of Internet of Things (IoT) in Logistics industry in Vietnam
- **Description:** Conducted an in-depth study on how IoT technologies are transforming Vietnam's logistics sector, focusing on applications such as real-time tracking, smart warehousing, predictive maintenance, and supply chain optimization. The research highlighted both opportunities and challenges, including cost efficiency, transparency, and operational resilience, while also addressing barriers like infrastructure readiness and data security. Findings emphasized IoT's potential to enhance the competitiveness of Vietnamese logistics firms in the context of Industry 4.0 and global trade integration.

### **PERSONAL PRODUCT**

- **Project Title:** Application of AI and IoT in the development of a behavioral safety monitoring and hazard detection system in schools
- **Description:** Designed and developed an AI-powered system aimed at enhancing school safety through real-time monitoring of student behavior and environmental hazards. The project integrates computer

vision and machine learning techniques to detect unsafe actions, identify potential risks (such as overcrowding, hazardous objects, or unusual movements), and provide instant alerts to school administrators. By combining predictive analytics with automated reporting, the system supports proactive intervention, reduces response time to incidents, and fosters a safer learning environment.

## **LEADERSHIP EXPERIENCE**

- **Volunteer Activity at SOS Children's Village**
  - Served as a local sponsor, helped organize a joyful lunch for eight families at the Village, and coordinated traditional games to celebrate the start of the 2025–2026 school year.
  - Responsible for organizing and managing the chess activity for children at the SOS Children's Village.

## **SOCIAL WORK & ACTIVITIES**

- Logistics Team Member of Ams Media Club:
- Volunteer at SOS Children's Village
  - Organized traditional folk games, football sessions, art, and chess lessons for 30+ children to welcome the New Academic Year 2025/2026.
  - Visited and organized happy lunches for 8 SOS families at the village.
- Participation in the “Mùa Hè Xanh 2025” Youth Volunteer Campaign in Che Tao Commune, Lao Cai Province
  - Provided free medical care and distributed dental & digestive medicine to 180+ residents in the rural area of Che Tao commune, Lao Cai
  - Delivered blankets & essentials to 15 isolated households
  - Donated 200+ books to the local library on K-12 curriculum & life skills
  - Refurbished 3 local schools' classrooms with colorful LED lights & interactive posters

## **TALENTS**

- **Guitar:** Able to perform solo and in groups; uses music as a creative outlet.
  - **Public Speaking:** Confident in presenting ideas and leading discussions.
  - **Creative Thinking:** Enjoys writing and solving problems with innovative approaches.
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