

# NGUYEN QUANG MINH

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## EDUCATION

Archimedes Academy Secondary School	2018 - 2022
▪ Grade 9: 9.6	
Hanoi - Amsterdam High School for the Gifted, Hanoi, Vietnam	2022 - 2025
▪ Grade 10: 8.5   Grade 11: 9.2	
▪ IELTS: 7.0 (Listening: 8.0   Reading: 7.5   Speaking: 6.5   Writing: 6.5)	
▪ SAT: 1510 (Verbal: 720   Math: 790)	

## HONORS & AWARDS

- **INOVA 2024, 48th International Invention Show** (October 2024)  
*Gold Award* - OilSweep: Intelligent Oil-Collecting Robot for Marine Environments
- **International Invention and Innovation - INTARG 2024** (May 2024)  
*Gold Award* - Automatic waste classifying trash can using image processing technology
- **AI JAM US 2024** (August 2024)  
*Gold Award* - Alot Air Quality Monitoring
- **Student of the month** - Archimedes Academy (August 2021)
- **Ams Cup 2022 (soccer)** - Third Place

## PUBLICATIONS/RESEARCH

**International Journal of Advanced Research in Computer Science**  
Article: CLASSIFICATION OF PLANT LEAVES AND FLOWERS USING IMAGE PROCESSING AND DEEP NEURAL NETWORKS. DOI: <http://dx.doi.org/10.26483/ijarcs.v15i5.7137>

## Personal Project

- Main Author**, Terrain Stability Monitoring and Landslide Early Warning System.
- Developed a landslide warning system using Arduino to monitor terrain stability.
  - Implemented automatic alarms and signal lights upon detecting risk.

## ACADEMIC ACHIEVEMENT

Global Link Singapore, Nanyang Technological University, Singapore	Summer 2024
▪ Developed a web-based project for diagnosing diseases through X-ray image analysis using AI and machine learning.	
▪ Attended a workshop reviewing projects from over 150 students across various scientific fields.	
▪ Participated in advanced research methodology sessions led by NTU professors.	

INOVA 2024, 48th International Invention Show	Sep 2024
▪ Developed an autonomous robot, "OilSweep," designed to efficiently collect oil spills in marine environments.	
▪ Created functional block diagrams for system hardware and software integration.	

## LEADERSHIP EXPERIENCE

### **Leader, Community Service - Social Support Center II Hanoi (Hanoi Department of Labor, War Invalids, and Social Affairs)**

- Donated necessities at the Social Support Center II Hanoi (Hanoi Department of Labor, War Invalids, and Social Affairs) to 180 elderly individuals and people with disabilities.
- Awarded scholarships including books, pens, and backpacks to 20 underprivileged students at Viên An Secondary School.
- Lighting incense in memory of over 50 martyrs at the Viên An Martyrs' Cemetery, expressing gratitude and respect for those who sacrificed their lives for the country.

## OTHER ACTIVITIES

### **Community Service - SOS Children's Villages Hanoi**

- Arranged a Mid-Autumn party for 30 orphans, including decorations and traditional activities.
- Provided scholarships to orphans.
- Educated children about Vietnam's Mid-Autumn Festival and culture.

### **Member, Academic Department: Math Group at MASKA23**

**Feb 2023 - May 2023**

- Designed learning programs and assignments shared with 8,000 members on Facebook.
- Supported over 100 students in mathematics through group chats, offering advice and exam preparation tips.
- Assisted in organizing an educational event with nearly 1,000 participants.

### **Member, Financial Department of Science Fair 2023**

**Spring 2023**

- Organized a science workshop with over 2000 participants.
- Coordinated over 50 science experiments and games for children.
- Raised 17 million vnd individually from 2 sponsors and a total of 100 million vnd.

### **Member, Financial Department of Society of Open Science**

**2022 - 2023**

- Researched, contacted and maintained relationships with sponsors.
- Raised a total of 30 million vnd from 3 sponsors individually.
- Help organize a science workshop, a summer camp and came to 3 secondary schools in Hanoi to teach over 200 students about science and perform science experiments.

### **Member, Financial Department of Science Camp 2023**

**Summer 2023**

- Researched and contacted sponsors to raise a total of 80 million for the camp.
- Helped 100 children learn science and taught them how to create science projects.
- Taught a group of 10 students to dance and prepared them to perform at a gala night event.

### **World College Australia, Australia**

**Summer 2024**

- Completed a 40-hour program focusing on English language skills, leadership development, and cultural immersion.
- Visited universities: Melbourne University, The University of Sydney, Monash University, The University of Technology Sydney, and Deakin University.
- Attended business and Australian culture classes led by University of Sydney professors.

## INTERESTS

- Soccer, Basketball, Technology, Music