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Introduction: I am Nguyen Quang Minh, and I have just finished my 11th grade at Hanoi - Amsterdam High School. Throughout my journey, my teachers and friends have identified me as someone who always embodies a positive attitude and determination in every activity. As an active student, I have developed strong communication and teamwork skills through lots of extracurricular activities. My strong passion for technology has motivated me to work on many science projects, including organizing science events and competing in innovation contests. I excel in roles that require innovation and determination, and I want to use the impact of technology to support others.

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 Silicon Valley 2024** (August 2024)

Gold Award - Alot Air Quality Monitoring

- **Student of the month** - Hanoi High School for Gifted Students (August 2021)

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

- Landslide warning system using Arduino, monitoring terrain stability. Automatically triggers an alarm 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 A.I and machine learning to provide diagnostic insight.

- Attended a science workshop, reviewing projects presented by over 150 students across various scientific fields.
- Participated in a meeting led by a professor at Nanyang Technological University to learn advanced research methodologies.

INOVA 2024, 48th International Invention Show

- Developed an autonomous robot designed to efficiently collect oil spills in marine environments.
- Generated ideas and conceptualized the “OilSweep” robot
- Created the functional block diagram of the system, providing the team with a clear structure for both the hardware and software integration.

LEADERSHIP

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

Leader

- 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 by decorating a room with cultural artwork, buying traditional cake for the children and crafting handmade decorations.
- Granted scholarships to the orphans at the village
- Taught the children about Vietnam's Mid-Autumn Festival and culture.

Member of Academic Department: Math Group at MASKA23 Feb 2023 - May 2023

- Designed learning programs and assignments for secondary school students, shared through a facebook page with 8,000 members.
- Created a group chat to support and collaborate with over 100 students in mathematics, sharing advice and experience for exam preparations.

- Supported in organizing an educational event with nearly 1,000 participants, where high school students provided academic advice and mentorship to younger students.

Member of 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 of 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 of 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

- Successfully completed a 40-hour program in Australia focused on English language skills, leadership development, and cultural immersion.
- Visited Melbourne University, The University of Sydney, Monash, The University of Technology Sydney and Deakin University.
- Participated in classes on business and Australian culture led by two professors at the University of Sydney.