

# ANGEL HUANG

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## EDUCATION

**Massachusetts Institute of Technology**, B.S. in Computer Science, Minor in Business Analytics, 2021 Cambridge, MA  
**Taipei American School**, High School Diploma, GPA 3.95/4.0, 2017 Taipei, Taiwan

## WORK EXPERIENCE

**Via Technologies:** the biggest independent manufacturer of motherboards in the world **Taipei, Taiwan**  
*Software Engineering Intern* June 2018-Present

- Developed program that allows respective LEDs to light up based on musical notes according to a real time music played
- Introduced machine learning into Via's educational outreach curriculum and its products

**Massachusetts Institute of Technology Langer Lab** **Cambridge, MA**  
*Undergraduate Researcher* September 2017-Present

- Optimized the delivery of CRISPR/Cas9 into the in-vivo system by perfecting the process of nanoparticle formulation
- Formulated CRISPR/Cas9 nanoparticles for other labs to perform different experiments

**Massachusetts Institute of Technology Media Lab** **Cambridge, MA**  
*Undergraduate Researcher* January 2018-June 2018

- Investigated ways to apply Blockchain to improve the electronic health record system in the U.S.
- Created a Blockchain simulation that enables researchers to identify the program's efficiency and security in real time

**Lean On Me** **Cambridge, MA**  
*Director of MIT Chapter* September 2017-Present

- Automated the application process of new chapters in universities across the U.S. to increase the efficiency of expansion
- Collaborated with the administrator to be mental health student advisor and create a stress relief space

**Nazarbayev Intellectual Schools** **Karaganda, Kazakhstan**  
*Biology Teacher and Curriculum Advisor* December 2017 – January 2018

- Inspired 10th grade students to take control of their own learning process by holding laboratory design workshops
- Taught local Kazakhstan teachers to promote active and hands-on learning to prepare students for future education and career

**Fu Jen University/National Taiwan University** **New Taipei City, Taiwan**  
*Research Assistant and Physician Assistant* June 2015-August 2017

- Collected/analyzed data to present the failure of current chemotherapeutic strategy for breast cancer and identified specific biomarkers to help improve chemotherapy
- Analyzed the cause of a diverse range of symptoms among Enterovirus71 infections and identified 4 mutations that causes brain death instead of being asymptotic

## LEADERSHIP

**MIT Hacking Medicine: Operations Lead** September 2017-Present

- Organized the logistical needs for the 2018 April GrandHack that attracted more than 500+ hackers
- Consulted for other organizations to help hold their own healthcare hackathons

**FIRST Robotics Competition: Team Captain** December 2014-May 2017

- Increased analysis efficiency by 110% and decreased human mathematical errors by developing an auto-analysis program
- Cold-called more than 60 high school administrators to promote robotics in Taiwan to improve its educational system
- Lobbied Taiwanese government to fund robotics curriculum and FIRST competitions; initiated meetings with 5 governors

**STEM in English: Founder and President** January 2011-August 2017

- Streamlined series of student-centered workshops and summer camps to strengthen STEM education at an elementary school
- Trained 20 volunteers leaders from 3 countries to the school win an honorary award from the Minister of Education

**Tri-M Music Honor Society: President** March 2015-August 2017

- Integrated new marketing and fundraising strategies to the annual TRI-M Charity Concert to promote appreciation for music
- Forged new partnerships with 3 entrepreneurs to increased Tri-M's donation to St. Anne's Orphanage by 130%

**Owl Library: Volunteer and Consultant** November 2013 – August 2017

- Developed an English story telling initiative at a local library to promote English language learning among 83 children, which increased the library's number of customers by 145% and funding by 110%
- Facilitated parent-child relationship building through 4 annual events, including Dine & Learn and Night Market Tours

## HONORS AND AWARDS

- **2017** Intel International Science & Engineering Fair 4th Award
- **2017** Certification in ACLS, NRP, ETTC, and EMT-1
- **2017** Outstanding Contribution to Robotics and Engineering
- **2017** Outstanding Student in Mathematics Award
- **2016** Infectious Disease Society of Taiwan 1<sup>st</sup> Place poster
- **2016** FIRST Dean's List Finalist
- **2016** MIT Network of Educators in Science and Technology
- **2015** National Honor Society and Spanish Honor Society

## ADDITIONAL SKILLS AND INTERESTS

- Fluent in Mandarin (First Language)
- Proficient in Spanish (5 years)
- Hike and explore
- Tennis
- Cooking
- Technical Skills: Python (fluent), C/C++ (intermediate), Machine Learning (intermediate), Arduino (intermediate)