

Nattapat Intarachumnum

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EDUCATION

Lehigh University, Bethlehem, Pennsylvania

Graduation year: 2022

B.S. Mechanical Engineering; Biotechnology minor

University High school, Irvine, California

Graduated 2018

RESEARCH AND WORK EXPERIENCE

A Low-Cost Point-of-Care Screening Device for Sickle Cell Anemia

May 2019 - Present

Research Assistant at Lehigh University

- Research cost-efficient methodologies to decrease the price of sickle cell anemia detection in order to allow early detection and proper medication for Sickle Cell Anemia in low-and-middle-income countries, specifically in Sierra Leone
- Quantify the intensity of dots developed on test strips utilizing the Image J program to quantify.
- Run the test strips; perform dialysis and beads conjugation. The device has been tested using purified HbA and HbS; HbA blood samples from a blood bank located in Bethlehem, PA.
- Discuss the progress, further plans, and future strategies during the weekly team meetings.
- The team has partnered with World Hope International (WHI) – Sierra Leone. In August 2019, the team travelled to Sierra Leone to test the device in the real field, and to justify the need for a Sickle Cell disease diagnosis device.

Team member at Poke Me; Irvine, CA

June 2019

Handle customer personalized orders; ensure that ingredients are kept at certain temperature for the best quality; manage inventory of raw materials.

Front Desk Assistant at Linderman Library; Lehigh University

August 2018

Assist the visitors of the library; monitor the return and loan of the books; pick up phone calls and contact

LEADERSHIP EXPERIENCE

Thai Student Association; Lehigh University

September 2018

Current position: President

Found the club, along with 2 peers, to bring more diversity to campus and to share our unique culture; Oversee other executive boards; plan out events throughout the year; collaborate with other organizations on campus that promotes cultural inclusivity, such as ACS and SEAL

Resident Assistant (Gryphon); Lehigh University

December 2019

Was selected to uphold the school's mission of supporting residents in their personal, professional, and civic development; plan activities and gatherings within my assigned residential area; ensure the well-being of my residents through one-on-one personal conversations, "G-chat"; promote inclusivity within the community; enable residents to feel safe and supported.

AWARDS

Finalist for the "2020 John Hopkins Healthcare Design Competition"

April 2020

- Lehigh Sickle Cell Diagnostics was one of the 12 teams selected among more than 225 applications from US & abroad, under "Global health issue" category invited to present our project. Our project proves that if successfully implemented, we would be able to positively impact lives of millions globally. I was one of the two speakers giving 15 minutes presentation and Q&A follow up session.

SHE Scholarship

SHE Program, UCI Medical Center

May 2017

- Through my essay submission and academic interests, I conveyed passion for health-related field and was selected. Top 20 Essay entries out of 100 for best conveyed passion in health-related fields

CAMPUS AND COMMUNITY INVOLVEMENT

Akile Dance team; Lehigh University Student Scholar Institute (LUSSI); Asian Cultural Society (ACS); South East Asia at Lehigh (SEAL); Society of Scientists and Engineers (SASE); FIRST; the Gryphon Society

ADDITIONAL SKILLS

Language: Thai (C2), English (C2).

Software: Excel, Java, MATLAB, Arduino, ImageJ, SolidWorks; Powerpoint; Photography and video-editing.