

Abigail Selena Chiaokhiao

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Education

Bachelor of Bioproducts & Biosystems Engineering

Expected Graduation May 2023

University of Minnesota – Twin Cities ~ GPA: 3.53

Blaine High School ~ Center for Engineering, Math, & Science

Sept 2015 – June 2019

Relevant Coursework: Physics I-II, Chemistry & Organic Chemistry I-II, Calculus I-IV, Statics of Materials, Intro to Thermodynamics & Biological Thermodynamics, Intro to Bio-Based Materials Science

Skills

- Software: Solidworks, AutoCAD, MATLAB, Google Suite, Microsoft Suite, MotionLab, LoggerPro
- Foreign Language: semi-fluent in Spanish
- Data analysis including through the use of various chromatography tests

Experience

Lab for Biorefining UMN — Research Assistant

June 2021 – Present

- Continued cultivation of bacterial strains through sterilization and inoculation
- Modeled engineering processes using AutoCAD
- Analyzed data using HPLC, FID, and gas composition measurement

Lifetime Fitness — Team Member

May 2019 – Jan 2021

- Aid and serve customers in transactions
- Follow a routine of maintenance tasks
- Create spreadsheets to streamline for other team members

Projects

SASE Labs: Gopher Way Navigator App (JavaScript, CSS)

Oct 2019 – Aug 2020

- Co-led in the development of an app to navigate the university's tunnel system
- Collaborated on a programming team and led team meetings

Center for Engineering, Math, and Science High School Senior Design (Java) Sept 2018 – June 2019

- Collaborated on a small team to design and present a unit to improve of bike theft
- Worked as the programmer to develop the device program for the microcontroller, stick welded, and helped in documentation writing

Volunteering/Activities

Volunteer/Outreach Coordinator – Society of Asian Scientists and Engineers

June 2021 – Present

- Organize volunteer and fundraising events
- Coordinate with other student groups for collaborative events

Program Director – Society of Asian Scientists and Engineers

Sept 2020 – June 2021

- Leads teams of 5-12 students to design and prototype yearlong interdisciplinary projects.

Programming Captain – Robotics Team

2015 – 2019

- Mentored and directed programming members in writing programs for our robots.

Leader - Bengals in Action Volunteering Group

2015 – 2017

- Planned events and worked alongside other volunteers for fundraising and community service