

# Koya Saito

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Michigan State University freshman with diverse experience in basic engineering. Background working in material science, chemical engineering, data analysis and computer science. Current goals include pursuit of MSU engineering **undergraduate degree**, extracurricular activities, and general work experience.

## EDUCATION

### Skyline High School | 2019 | Ann Arbor, MI

- Design Technology Engineering Prototyping (DTEP) Magnet Program

### Michigan State University | Undergraduate 2023 | East Lansing, MI

- Major: Computer Science

## EXPERIENCE

### Natural Gas Systems | Paid Intern | Novi, MI | <http://thirdshoregroup.com>

May 2019 – Present

Write code for and record data from **MQ-8 hydrogen** sensor. Independently script in **Python** and **Java**.

- Curve Calibration
- Python Data Analysis
- Configured Arduino to read from and write to a sensor
- Read, interpret and apply hardware documentation

### PIDC | Paid Intern | Ann Arbor, MI | <http://www.pidc.com/>

September 2018 – February 2019

Pacific Industrial Development Company - Researched **metal oxide** powder to create **abrasive lens polishes**. Ran polish abrasion experiments independently in a **lab setting**.

- Water milling
- Particle Analysis
- Calcining material
- Data management
- Knowledge of metal oxides and polishing slurries

### University of Michigan | Intern | NCRC | Ann Arbor, MI | <http://cheresearch.engin.umich.edu/burns/>

July 2018 – August 2018

Worked alongside Mark Burns, Laura Hirshfield, Brianna Lax and Brian Johnson in the **Burns Microfluidics Lab** to reduce energy consumption of flow rate sensor. Calculated flow rate of liquid based on heat transfer.

- Studied **Microfluidics**
- Ran experiments and collected data using **LabVIEW**
- Processed and analyzed data using **Microsoft Excel** and **MATLAB**
- Presented final results to field of experts

### Moonwinks Cafe | Customer Service | Ann Arbor, MI | <http://www.moonwinkscafea2.com/>

September 2017 – September 2018

Served customers on the weekends during the school year.

- Cashier, chef and food preparation
- Customer service experience
- Managed my time and maintained a professional attitude.

## ADDITIONAL SKILLS & EXPERIENCE

- **Self-taught** ability to program in Python
- Captain of MPSA crush soccer team
- **45+** Volunteer hours at Food Gatherers