

# Youngwoo Lee

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## Summary of Qualifications

- Excellent **reasoning** and **problem-solving** skills developed through experience with **programming languages** Python, JavaScript, HTML, CSS, Processing 3 (based on Java)
- Proficiency in Microsoft Office, specifically **Excel**, **AutoCAD** with GD&T standards, **AutoCAD Plant 3D**
- **Leadership** and **independent management** skills through 2 years lifeguarding experience

## Projects

### Personal Website

Dec 2019-Present

- Used advanced HTML and CSS techniques like Flexbox to develop a mobile-friendly website
- Integrated JavaScript into contact section by writing function that opens up user's email client

### Midnight Sun Design Team

Sept 2019-Dec 2019

- Developed teamwork and interdepartmental collaboration skills working as part of design team to create a 4-person solar powered car for the 2020 American Solar Challenge
- Applied safety principles while utilizing industrial-grade 450°C soldering iron to build sensitive car sensor
- Interpreted complex schematics with 22 individual parts to assemble printed circuit board

### LI Soap Brand

Sept 2019-Dec 2019

- Manufactured, marketed, and sold 500g of soap using base essential oils and household lipids
- Utilized advanced MS Excel tools (VLOOKUP, Solver) and PyXLL Python-Excel integration to create a calculator that outputs masses of ingredients required to optimize for 10 different soap properties

### Plant and Instrumentation Diagram Report

Oct 2019-Nov 2019

- Demonstrated AutoCAD Plant 3D proficiency by designing a plant and instrumentation diagram (P&ID) of a liquid nitrogen tank
- Developed technical writing and professional communication skills and MS Word proficiency by writing a professional report with document automation

### Amgen E-Coli Lab

Feb 2019-Mar 2019

- Implemented micro pipette and gel electrophoresis lab techniques to genetically engineer and cultivate 5mL E. coli bacteria with altered DNA plasmid to simulate insulin production

## Work Experience

### Pro Recreation Lifeguard

Jun 2018-Aug 2019

- Fostered leadership skills and ability to work under pressure through pool-related emergency scenarios
- Demonstrated independent management skills and exceptional customer service skills by being consistently attentive, friendly, and approachable through up to 12.5-hour shifts
- Gained valuable experience with water treatment processes by working with pool filters, chlorinators, and pH indicators to maintain ideal pool conditions

## Awards

HOSA Nationals 4<sup>th</sup> place in CPR

May 2018

DECA Regionals top 8 in MTDM

Nov 2018

## Education

Candidate for BASc in Honours Chemical Engineering

Sept 2019-Present

## Hobbies and Interests

- Video games
- Basketball
- Programming
- Playing the piano
- Producing music
- Plastic model kits