

# BRANDON CHOI

MECHANICAL ENGINEER



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## SKILLS

### CAD

- **AutoCAD** (2 years)  
used to draft 2D designs for design class projects
- **Sketch up** (3 years)  
used to draft 3D designs for design class projects and 3D printing
- **Onshape**  
used to design and reverse engineer objects in spare time

### MECHANICAL

- CNC Machining
- 3D printing
- Pneumatic, Power, Hand Tools
- Drafting
- Woodworking

### ELECTRICAL & SOFTWARE

- Python (limited)
- C++ (limited)

## EDUCATION

### UNIVERSITY OF WATERLOO

BASc in Mechanical Engineering

Sep 2024 - April 2029

### RICHMOND GREEN SECONDARY SCHOOL

OSSD

Sep 2020 - June 2024

## EXPERIENCE

### Lexus - Richmond Hill — Assistant Mechanic

September 2022 - January 2023

Completed tire swaps, and oil changes regularly

Changed brake fluids and brake pads

Mounted, balanced, and unmounted tires

Completed wheel alignments

### McDonald's - Richmond Hill — Crew Member

August 2022 - Present

Worked to assemble burgers and other food items

Operated fryers and grills to prepare food

## PROJECTS

### Crane — (School Project)

Utilized the design process to design a crane as a group to compete in a timed trial.

Used sketches, AutoCAD, and Sketchup to draft and design

Used VCarve, 3D printing, and CNC machine to build the final product

### Toy Automata— (School Project)

Utilized the design process to design a crane as individuals

Used sketches, AutoCAD, and Sketchup to draft and design

Used VCarve, 3D printing, and CNC machine to build the final product

### Candy Dispenser— (School Project)

Utilized the design process to design a dispenser as individuals.

Used sketches, and Sketchup to draft and design

Used Power Tools, and Hand Tools to construct the final product

### Acoustic Amplifier— (School Project)

Utilized the design process to design an amplifier as individuals.

Used sketches, and Sketchup to draft and design

Used Power Tools, and Hand Tools to construct the final product