Donna Kim

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Candidate for BASc in Honours Mechatronic Engineering, University of Waterloo
LinkedIn

SUMMARY OF QUALIFICATIONS

- Successfully produce functioning projects from all manufacturing steps including planning, development, and assembly
- Efficient in completing tasks and projects by deadlines
- Previous experience in high pressure employment and time-based operations
- Able to quickly adapt to workplace conditions and contribute to creating a positive workplace environment

WORK EXPERIENCE

Battery Box Systems Core Member *09/2022 – present*

Midnight Sun Design Team – University of Waterloo

- Completed training in battery systems, spot welding and SolidWorks
- Hands on experience modelling and 3D printing battery modules
- Participated in module design sprints and battery module testing

Customer Service and Back-Line Staff *09/2021 – 08/2022*

Arby's – London, Ont.

- Mastered point-of-sale (POS) computer system for automated order taking
- Maintained high standards of customer service during high-volume, fast-paced operations, resulting to customer satisfaction
- Acquired knowledge of workplace standards, professionalism, and personal finances

Student Council Prime Minister *09/2021 – 05/2022*

Catholic Central High School – London, Ont.

- Responsible for finalizing event drafts, coordinating event volunteers, and communicating with administration
- Actively participated and led council meetings, communicated effectively with other ministries, and made executive decisions on behalf of the school community

SKILLS

- **Software:** C++, C
- **Mechanical:** SolidWorks, AutoCAD, Fusion360, 3D printing, Blender, GD&T
- **Hardware:** Arduino, Soldering
- **General:** WHMIS 2015, Microsoft Office Proficiency, Communication, Leadership

HONOURS + AWARDS

Professional Engineers Ontario (PEO) Scholarship, London Chapter **09/2022**

Valedictorian, Graduating Class of 2022, Central Catholic High School– London, Ont. **06/2022**

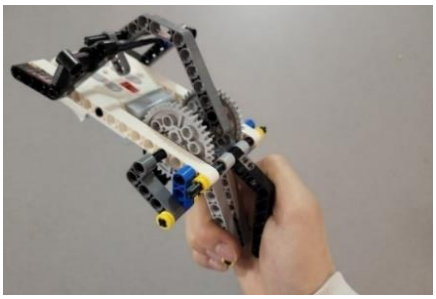
Top Average of Graduating Class: Bronze Medalist, Catholic Central High School **06/2022**

Highest Mark Awards, Catholic Central High School **09/2021**

- Computer Science (99%), Chemistry (99%), Advanced Functions, (98%), Music Orchestra (94%)

Projects

Laser Tag Robot



- Interactive miniature desktop laser tag robot
- Travels on a desktop surface at random while avoiding table edges
- Inputs shots from user while in motion and displays final points at the end of the game time
- Utilized a Lego EV3 brick and Lego components
- Used an infrared beacon and sensor as the main laser tag system, in addition to an ultrasonic sensor, gyro, motor encoder and touch sensor
- Coded in C using RobotC

Speed-War Game Simulation, C++

- High level C++ program that simulates the card game War
- Utilizes structures to define a Card and Deck
- Implemented the use of header files to optimize code and decrease compile time
- Utilizes object arrays within a structure
- Utilizes relational operators to determine winners of each round
- Utilizes ASCII art

```
Bobby VS. Randy
GO!

Bobby played A♦
Randy played 6♣
Bobby won!

Bobby has 27 cards.
Randy has 25 cards.

Bobby played 6♥
Randy played 2♣
Bobby won!

Bobby has 28 cards.
Randy has 24 cards.
```

More personal projects: Donna Kim's Portfolio

References

Available upon request.