

Dilpreet S. Chana

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WORK EXPERIENCE

OPTIMOTIVE TECHNOLOGIES | SOFTWARE DEVELOPER

August 2016 - Present | Windsor ON

Optimotive Technologies is a tech startup building innovative automotive applications. Optimotive is focused on developing vision technology for the interior of a car.

- Created camera technology for vehicle interiors that allows the car to know what is happening within the cabin.
- Collaborated with a development team of 4 to complete projects using **OpenCV**.
- Winner of the EPICenter accelerator best tech startup award out of 12 startups.
- Completed tasks based on a strict timeline and met all deadlines.

EDUCATION

UNIVERSITY OF WINDSOR | HONOURS COMPUTER SCIENCE WITH CO-OP AND MINOR IN MATHEMATICS

Sept. 2016 - Present | Expected 2020 | Windsor ON.

Major Average: 96.66

PROJECTS

ARTEMIS GAME ENGINE | [HTTPS://GITHUB.COM/ARTEMISENGINE/ARTEMIS-ENGINE](https://github.com/ArtemisEngine/Artemis-Engine)

July 2015 - May 2016

Artemis is a modern cross-platform 2D game engine.

- Developed Artemis Engine in **C#** using **Monogame/XNA** libraries in **Visual Studio**.
- Implemented unique flow control objects allowing users to create a multi-page application with great efficiency.
- Designed to allow users to focus on developing game ideas rather than code.
- Developed a simplified method of game animation and graphical augmentation.

PREFERENCE | [HTTPS://GITHUB.COM/OPTIMOTIVE/PREFERENCE](https://github.com/optimotive/preference)

June 2016 - August 2016

The preference system recognizes the user's face and outputs all preferences (seats, radio, etc.) in the car.

- Designed the Preference system in **C++** using **OpenCV** libraries.
- Implemented custom facial recognition algorithms with 80% accurate recognition.
- Utilized self learning pattern detection tools.
- Engineered custom **PCBs** and electrical systems to bypass the car's central computer.

FIRST ROBOTICS | VOLUNTEER & MENTOR

Sept. 2013 - June 2016 | Honourable Vincent Massey S.S.

- Created an **OpenCV** program to track and lock onto a target in real-time with an accuracy of 95%.
- Taught a new team of 10 developers how to program with **C++**, **Java** and **OpenCV**.
- Won the Windsor regional competition out of 50 teams and competed at the international level.

HARRY POTTER: NEW HORIZONS | [HTTPS://GITHUB.COM/DSCHANA/FINAL-PROJECT-11](https://github.com/dschana/final-project-11)

Grade 11 Final Project

- Created a partial remake of Harry Potter for the Gameboy colour in **python**.
- Used object-oriented design to optimize and organize program flow.

EXTRA CURRICULAR

COMPUTER SCIENCE GAMES

- Participated in the annual CS Games in 2017.
- Competed in challenges from various disciplines of computer science including **artificial intelligence** and **theoretical computer science**.

REFERENCES AVAILABLE UPON REQUEST