

# Dilpreet S. Chana

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## WORK EXPERIENCE

### **OPTIMOTIVE TECHNOLOGIES** | FOUNDING PARTNER

August 2016 - Present | Windsor ON

Optimotive Technologies is a tech startup building innovative automotive applications. Optimotive is focused on developing vision technology for autonomous vehicles.

- 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 using the scrum development ideology.

### **ARTEMIS ENGINE** | FULL STACK DEVELOPER

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.

## PROJECTS

### **WINGBOT** | [HTTPS://GITHUB.COM/ERICPICKUP/WINGBOT](https://github.com/ericpickup/WingBot)

Hack the Valley 2018

Profiling tool made with **Python/Node.js** that scrapes info from social media profiles using the **Tweepy/Twitter API**

- Developed real time machine learning algorithms to identify different people in pictures using **computer vision**.
- Implemented the **Google API** for natural language processing of tweets to determine the levels of emotion and interests.

### **TWITTER CHESS** | [HTTPS://GITHUB.COM/DSCHANA/TWITTER-CHESS](https://github.com/dschana/twitter-chess)

U of T Hacks 2017

Chess bot on twitter built using **Python**

- Implemented the **Tweepy/Twitter API** to listen for game related requests.
- Hosted bot on an **AWS server** to allow for higher levels of up-time.

### **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.
- Engineered custom **PCBs** and electrical systems to bypass the car's central computer.

## EDUCATION

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

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

Major Average: 85.75

## EXTRA CURRICULAR

### **COMPUTER SCIENCE GAMES**

- Participated in the annual CS Games in 2017 and 2018.
- Competed in challenges from various disciplines of computer science including **artificial intelligence** and **theoretical computer science**.

REFERENCES AVAILABLE UPON REQUEST