

# Dilpreet S. Chana

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## EDUCATION

**UNIVERSITY OF WINDSOR**  
**HONOURS COMPUTER SCIENCE**  
Expected 2020 | Windsor, ON  
Cum. GPA: N/A

## LINKS

Github:// [DSchana](#)  
LinkedIn:// [dschana](#)  
Twitter:// [@dschana2](#)

## SKILLS

### PROGRAMMING LANGUAGES

Java • Shell • Python • C++ • iOS • C • C#

### COMPUTER SCIENCE

Artificial Intelligence • Computer Vision • Graph Theory • Robotics • Microprocessors • Algorithmic Problem Solving • Optimization

### MATHEMATICS

Linear Algebra • Matrix Theory • Differential Calculus • Discrete Mathematics • Control Theory • Game Theory • Euclidean Geometry • Projective Geometry

## COMPETITIONS

### PROGRAMMING

2015-2016 CCC  
2015-2016 ECOO

### MATHEMATICS

2010-2011 Gauss  
2012 Pascal  
2013 Fryer  
2013 Cayley  
2014 Galois  
2014 Fermat  
2015 Hypatia  
2015-2016 Euclid  
2015-2016 CSIMC

## EXPERIENCE

### FIRST ROBOTICS | SOFTWARE ENGINEERING DIVISION LEADER & MENTOR

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

- Lead Computer Vision Developer
- Taught a new generation of developers how to program with C++, Java and OpenCV.
- Won the regional competition and competed at the worlds level.

### WEST OF WINDSOR INC. | ADMIN ASSISTANT

Summer 2014 | Windsor, ON

- Developed an iOS application for the organization.
- Assist in office activities.

### CANADA SOUTH SCIENCE CENTRE | TECHNICAL SUPPORT / CUSTOMER RELATIONS

July 2012 - July 2015 | Windsor ON

- Developed an iOS application for the organization.
- Greet and direct visitors, answer phone calls using excellent communication skills.
- Assist and lead in technical areas for regular maintenance of the centre.

## PROJECTS

### HARRY POTTER: NEW HORIZONS |

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

Grade 11 Final Project

- Top down partial remake of Harry Potter Chamber of Secrets for Gameboy Colour in python 3.
- Heavily utilizes classes and methods to optimize and organize program flow.

### ARTEMIS GAME ENGINE |

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

- Artemis is a modern cross-platform 2D game engine designed on top of Monogame/Xna.
- The engine implements unique flow control objects that allow to user to create a multi-page application with great ease.

### INVOICE | [HTTPS://GITHUB.COM/DSCHANA/INVOICE](https://github.com/dschana/invoice)

- Invoice system developed with the Artemis Game Engine.
- Introduces clean UIElements for easy user experience.
- Developed for Interstate Truck Centre; a truck repair shop based in Windsor ON.

## HONOURS & AWARDS

2015	Winner	FIRST Robotics Regional Competition
2015	Finalist	FIRST Robotics Worlds Competition
2015	Top 25%	Canadian Computing Competition
2016	Honours	High School Graduation
2016	Ontario Scholar	High School Graduation