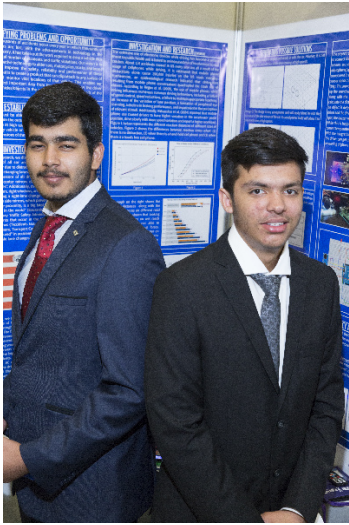


## CWSF 2018 - Ottawa, Ontario



### Zain UI-Abdin, Himanshu Aggarwal

#### QuadSense: An Autonomous Auxiliary Navigation Assistant

**Challenge:** Innovation

**Category:** Senior

**Region:** Peel

**City:** Brampton, ON

**School:** Bramalea S.S.

**Abstract:** The technology gap between newer and older generations of vehicles is becoming larger and larger as newer vehicles are able to offer features that enable a safer and a more convenient driving experience. QuadSense is a navigation assistant designed to reduce this gap in technology while helping eliminate driver distractions and alerting the driver of other vehicles/objects that are hard to detect otherwise.

#### Biographies

Zain - My name is Zain and I am a Grade 12 student at Bramalea Secondary School. I have a deep passion for technology and have been taking apart RC toys and electronics ever since I can remember. Some of the things I have done include: building a Bitcoin mining rig, repairing phones/computers, building my own gaming pc, coding my own game, and helping in the development of another game which was published on the Google Play Store. I also like repairing/driving cars, investing/spectating the stock market, and I have also directed two films which have been submitted to the Peel Film Festival. These are just some of my interests, but my main passion is...

Himanshu - I am a Grade 12 student at Bramalea Secondary School who is passionate about software and robotics. My keen interest in the same has driven me to discover various fields in the areas of Science and Engineering. After learning Java in my high school, I began to develop Android games and learn iOS app development by learning Swift. I then transitioned over and started to learn and make projects with Raspberry Pi and Arduino which helped me a lot during my project of "QuadSense". Me and my partner got inspired for this project when our friend's mother got into an accident due to her inability to detect a car in her door mirrors' "blind spot". Up...

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