CWSF 2018 - Ottawa, Ontario

Tim Gubski

AI Based Driver Alert System

Challenge: Innovation
Category: Intermediate
Region: Calgary Youth
City: Calgary, AB
School: Westmount Charter School

Abstract: Distracted driving and poor visibility have always been major issues in the automotive industry, but using AI machine learning and neural networks creates the ultimate driver alert system that will detect objects in its path and determine if they are potential hazards to the driver. This system will buy drivers precious time that will allow them to avoid potential collision and save countless lives.

Biography

I am a 9th grade student at Westmount Charter School in Calgary, Alberta and I am extremely passionate about coding and robotics. Through my love of science, I have taken part in many science fairs and competed in various robotics competitions such as FLL. In an effort to spread my passion with others, when I was 10 years old I co-founded a robotics company with my sister called JunioTech Kids Academy which teaches children ages 7-14, robotics, coding, 3D design, game design, and prototyping. In addition, I am also a mentor at the Google Ignite club at the UofC, where I teach high school students going into the engineering field how to program using java and processing, along side university students. This year I have been tinkering with AI and machine learning which led me to improving road safety and bettering the driving experience that goes along with it, creating the ultimate driver alert system that will identify objects in its path and notify the driver of any potential hazards.

Awards	Value
Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - $2000 Entrance Scholarship Sponsor: Western University	$2 000
Total	$2 000