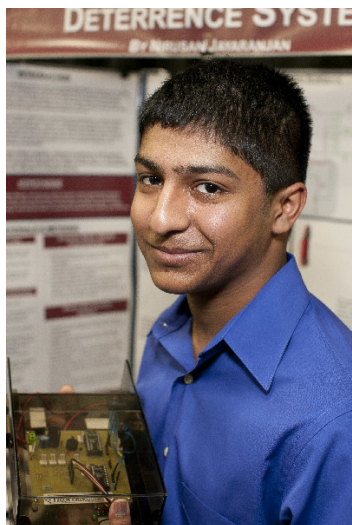


# CWSF 2011 - Toronto, Ontario



## Nirusan Jayaranjan

### Automated Drinking & Driving Deterrence System

**Challenge:** Innovation

**Category:** Senior

**Region:** St. James-Assiniboia

**City:** Winnipeg, MB

**School:** Collège Sturgeon Heights Collegiate

**Abstract:** My project creates an automated drinking and driving deterrence system using a passive, compact breathalyzer that could be easily installed into a vehicle to detect the driver's blood alcohol level. If the blood alcohol level is sufficient enough to diminish the ability of the driver to operate the vehicle, the vehicle would only operate in a limited capacity in order to prevent impaired driving.

#### Biography

My name is Nirusan Jayaranjan, and I attend Sturgeon Heights Collegiate in Winnipeg, Manitoba. The Canada-Wide Science Fair in Ottawa will be my third one that I will attend. I enjoy playing sports such as soccer, football, volleyball, and basketball. I will be attending Sturgeon Heights Collegiate for high school next year. I enjoy playing my alto saxophone in both concert and jazz band. I have an older brother who also attended the Canada-Wide Science Fair. I also plan on helping out with the 2009 Manitoba Host Committee for when we host the Canada-Wide Science Fair.

#### Awards

#### Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	\$700
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
The University of Western Ontario Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
<b>Total</b>	<b>\$9 200</b>