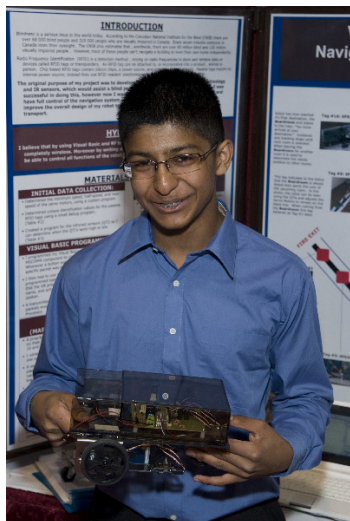


# CWSF 2008 - Ottawa, Ontario



## Nirusan Jayaranjan

### Voice Activated Navigation for the Blind

**Division:** Health Sciences / Automotive

**Category:** Intermediate

**Region:** Manitoba Schools Science Symposium

**City:** Winnipeg, MB

**School:** Collège Sturgeon Heights Collegiate

**Abstract:** In Canada there are over 68,000 blind individuals, and 319,000 visually impaired. There are an estimated 45 million blind individuals worldwide. I wanted to create a system that would allow blind individuals to navigate buildings independently by using Radio Frequency Identification technology and wireless voice commands. I was able to create a system that allowed the blind individuals to navigate buildings independently.

### 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

Awards	Value
Petro-Canada Peer Innovation Award - Intermediate - Central Canada Sponsor: Petro-Canada	\$200
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Automotive - Intermediate Sponsor: AUTO21	\$1 500
Gold Medal - Engineering - Intermediate Sponsor: Youth Science Foundation Canada	\$1 500
EnCana Platinum Award - Best Intermediate Project Sponsor: Encana Corporation	\$5 000
<b>Total</b>	<b>\$10 200</b>