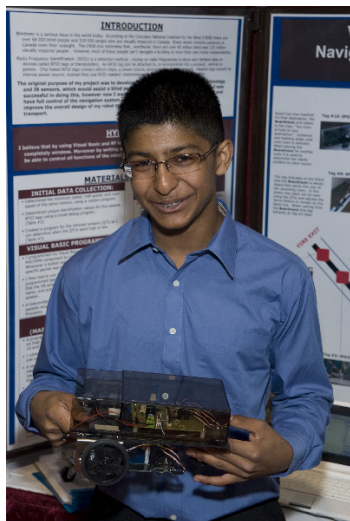


CWSF 2008 - Ottawa, Ontario



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

| | |
|---|-----------------|
| 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 |
| Total | \$10 200 |