

## CWSF 2019 - Fredericton, New Brunswick



### Miguel Gil-Pereira, Rodolfo Gil-Pereira

#### iRadar (Device to Help Blind People Detect Obstacles)

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Calgary Youth

**City:** Calgary, AB

**School:** St. Vincent De Paul Elementary Junior High School

**Abstract:** The iRadar is assisted technology for blind people. The device is operated by an Arduino Mega 2560, to control the circuitry involved in process of indicating proximity to an object in certain direction around the user. It is interesting to create gadgets to help others, it matters because there are around 39 million blind people, eager increase their independence.

#### Biographies

Miguel - My name is Miguel, and my school is St. Vincent de Paul, I enjoy participating in school activities and also practice sports like cross country skiing and chess, few years ago I participated in the Alberta Provincial Chess Tournament. The inspiration for this project started on a regular day, when my brother was at the mall and a blind person ran into him, and he started to wonder if there was something like a device available for blind people helps them with obstacles perception. After building this prototype, it would be interesting to learn more about how to transform it into something practical to use. For anyone thinking about doing a pr...

Rodolfo - My name is Rodolfo, and my school is St. Vincent de Paul, I enjoy participating in school activities and also practice sports like cross country skiing, soccer and chess, few years ago I participated in 2 Provincial Chess Tournaments in Alberta. Now I enjoy riding my skate board. The inspiration for this project started on a regular day, when I was at the mall and a blind person ran into me, I started to wonder if there was some device for blind people to help them with obstacles perception. After building this prototype, it would be interesting to learn more about how to transform it into something practical to use and adjust to the user. Fo...

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