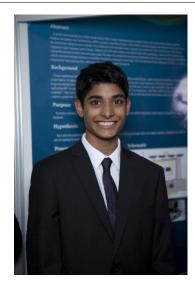




## CWSF 2013 - Lethbridge, Alberta



## **Alexander Deans**

iAid: A Novel Navigation Device for the Visually Impaired

Challenge: Innovation
Category: Intermediate
Region: Windsor
City: Windsor, ON

**School:** Academie Ste. Cecile International

Abstract: A novel navigation device for the visually impaired was developed using

multimodal feedback. A joystick rotated to show direction, tilted to show distance to the destination, and alerted users to obstacles within 60 cm. 10 volunteers, 1 retinitis pigmentosa patient, and 11 other visually impaired people were tested measuring course completion time and number of

collisions. The iAid was the fastest and safest device.

## **Biography**

My name is Alexander Deans, and I am in Grade 10 at Academie Ste. Cecile International School, Windsor, ON. I love playing many sports, including soccer, hockey, tennis, volleyball, sailing, and skiing. I also play the acoustic guitar and piano. I enjoy working with animals, and I have a bearded dragon.

Awards	Value
S.M. Blair Family Foundation Award - Intermediate	\$750
Sponsor: S.M. Blair Family Foundation	
Challenge Award - Innovation - Intermediate	\$750
Sponsor: BlackBerry	
Excellence Award - Intermediate - Gold Medal	\$700
Sponsor: Youth Science Canada	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Platinum Award - Best Intermediate Project	\$5 000
Sponsor: BlackBerry	
Total	\$11 200



