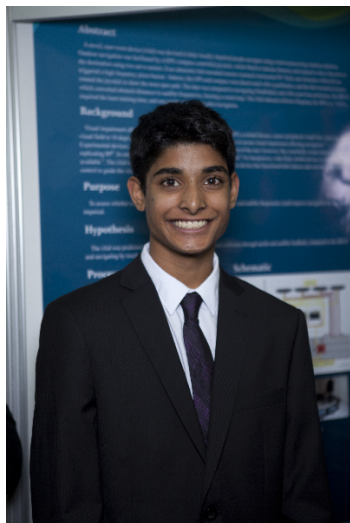


## ESPC 2013 - Lethbridge (Alberta)



### Alexander Deans

#### iAid: A Novel Navigation Device for the Visually Impaired

**Défi:** Innovation

**Catégorie:** Intermédiaire

**Région:** Windsor

**Ville:** Windsor, ON

**École:** Academie Ste. Cecile International

**Sommaire:** 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.

#### Biographie

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.

Prix	Valeur
Prix S.M. Blair Family Foundation - Intermédiaire Commanditaire: S.M. Blair Family Foundation	750,00 \$
Prix du défi - Innovation - Intermédiaire Commanditaire: BlackBerry	750,00 \$
Prix d'excellence - Intermédiaire - Médaille d'or Commanditaire: Sciences jeunesse Canada	700,00 \$
Bourse d'études de Western University Médaille d'or - Bourse d'admission de 4 000 \$ Commanditaire: Université Western	4 000,00 \$
Prix Platine - Meilleur projet intermédiaire Commanditaire: BlackBerry	5 000,00 \$
Total	11 200,00 \$