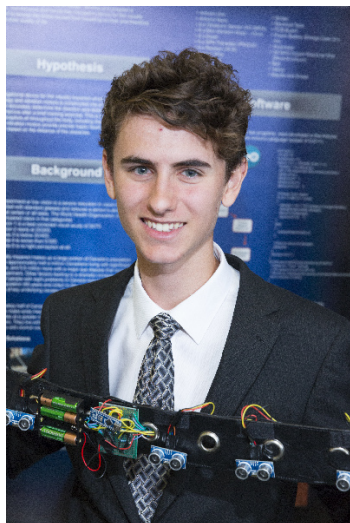


ESPC 2018 - Ottawa (Ontario)



Markus Kunej

The Echo Belt: Navigation Technology for the Visually Impaired

Défi: Innovation

Catégorie: Sénior

Région: Bay Area

Ville: Brantford, ON

École: North Park Collegiate & Vocational

Sommaire: I developed a novel navigation device for the visually impaired which provides directional haptic feedback of the user's environment in the form of vibrations. Unlike current mobility tools, my device is non-intrusive, hands-free, and provides 360 degrees of constant obstacle-detection. For persons with visual impairments, the "Echo Belt" can help reduce the stress related to foot-travel, overall improving their quality of life.

Biographie

My name is Markus Kunej and I am currently a grade 12 student at North Park Collegiate in Brantford. I was inspired to create the Echo Belt for my grandmother, who suffers from Glaucoma and is losing her vision. I hope to continue working on making the device more user-friendly. At my school, I am part of the chess and science teams, and student council. I play on the varsity tennis, volleyball, and soccer teams. I have won the Highest Academic Average Award at my school three years in a row. Outside of school, I play competitive soccer for my city and like to listen to music. I plan on studying engineering at a post-secondary school next year. For other students thinking about doing a project, I suggest they find inspiration close to their home. Look for problems affecting yourself or people you know. It will give your project more personal meaning and you will feel that much more enthusiastic about your work.

Prix

Valeur

Prix d'excellence - Sénior - Médaille d'or Commanditaire: Sciences jeunesse Canada	
Bourses de l'Université Carleton Médaille d'or, sénior - Bourse d'admission de 4 000 \$ Commanditaire: Université Carleton	4 000,00 \$
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie Médaille d'or, sénior - Bourse d'admission de 5 000 \$ Commanditaire: Université Dalhousie, Faculté des sciences	5 000,00 \$
Prix d'admission en sciences de UBC (Vancouver) Médaille d'or, sénior - Bourse d'admission de 4 000 \$ Commanditaire: The University of British Columbia (Vancouver)	4 000,00 \$
Bourse d'admission de l'Université du Manitoba Médaille d'or, sénior - Bourse d'admission de 5 000 \$ Commanditaire: Université du Manitoba	5 000,00 \$
Bourse d'admission de l'Université d'Ottawa Médaille d'or, sénior - Bourse d'admission de 4 000 \$ Commanditaire: Université d'Ottawa	4 000,00 \$
Bourse d'études de Western University Médaille d'or - Bourse d'admission de 4 000 \$ Commanditaire: Université Western	4 000,00 \$
Total	26 000,00 \$