

CWSF 2015 - Fredericton, New Brunswick



Samantha Peets, Jeremy Mallette

UPOD: The Sixth Sensor

Challenge: Innovation

Category: Senior

Region: United Counties

City: Ingleside, ON, Lunenburg, ON

School: St. Joseph's S.S.

Abstract: The UPOD is an advancement in assistive technology for the visually impaired. Using multiple ultrasonic sensors, it can detect various circumstances, such as surrounding objects and changes in elevation, and inform the user of them. This device solves many problems that visually impaired people face every day. With an emphasis on versatility, the UPOD has many planned features to provide service to the visually impaired.

Biographies

Samantha - My name is Samantha Peets. I am a grade 12 student at St. Joseph's Catholic Secondary School in Cornwall, Ontario. I am the Captain of my school's Reach for the Top team, a member of Student Council, the Eco Team, and school band. I have volunteered as an assistant water safety instructor, an assistant sailing instructor, and a peer tutor. I hope to study cognitive science to learn more about how humans think and eventually unlock the mysteries of the human mind.

Jeremy - My name is Jeremy Mallette and I am one of the CWSF finalists from the United Counties of Stormont, Dundas, and Glengarry, in Ontario. I live in a rural area with not much around. I often find myself getting swept away researching random topics on the Internet. That is what led me to my hobby in electronics and inventing/making. Since then my hobby has developed and I have built a number of devices. When approached to exhibit a new innovation at the regional science fair, I gladly accepted and began work. There are many future possibilities for my innovation, the UPOD, which are outlined in my project/presentation. My next move will be to hop...

Awards

Value

Canadian Acoustical Association Award - Senior Sponsor: Canadian Acoustical Association	\$1 000
Excellence Award - Senior - Gold Medal Sponsor: Youth Science Canada	\$250
Dalhousie University Faculty of Science Entrance Scholarship Senior Gold Medallist - \$5000 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$5 000
UBC Science (Vancouver) Entrance Award Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$4 000
University of Manitoba Entrance Scholarship Senior Gold Medallist - \$5000 Entrance Scholarship Sponsor: University of Manitoba	\$5 000
University of New Brunswick Canada-Wide Science Fair Scholarship Gold Medallist - \$5000 Entrance Scholarship Sponsor: University of New Brunswick	\$5 000
University of Ottawa Entrance Scholarship Senior Gold Medallist - \$4,000 Entrance Scholarship Sponsor: University of Ottawa	\$4 000
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Total	\$28 250