

CWSF 2008 - Ottawa, Ontario



Control Innovations for Quadriplegics

Division: Health Sciences / Automotive

Category: Junior

Region:

City: ,

School:

Abstract: This invention is a mobile Human-Machine Interface designed for people suffering from spinal cord injuries. Its purpose is to improve their quality of life. It's designed around 2 inertial sensors which simultaneously measure a person's head movements along two different axis (up/down & left/right). The sensors are read by an embedded controller which, in turn, controls devices like computers and wheel-chairs.

Awards	Value
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Automotive - Junior Sponsor: AUTO21	\$1 500
Gold Medal - Engineering - Junior Sponsor: Youth Science Foundation Canada	\$1 500
Total	\$5 000