



## CWSF 2016 - Montreal, Quebec



## Masum Billah, Calvin Veenkamp

Walking Analysis: A Gait-Way to a Better Future

Challenge: Innovation
Category: Senior
Region: Toronto
City: Toronto, ON

**School:** Danforth Collegiate & Technical Inst.

Abstract: Gait Trackr is a economical and versatile device designed to measure the

motion of a person's limbs. It can be used by both professionals and consumers for a wide variety of applications including: research studies on human gait, monitoring rehabilitation programs, identifying harmful walking

patterns, and improving sports performance.

## **Biographies**

Masum - My name is Masum Billah, I am a grade 11 student in the MaST program (Math and Science Technology) at Danforth Collegiate & Technical Institute in Toronto, Ontario. I am also an aspiring programmer/innovator, and my passion for programming and technology inspired me and my partner to create a motion detecting device for the science fair. The device was originally designed for use in prosthetics, but upgrades have increased it to many other uses in the field of sports, rehabilitation, and gait-correction. In the future, we plan on creating a smartphone app, allowing us to market it since it will become a lot smaller(approximately the size of a... Calvin - My name is Calvin Veenkamp, I am currently a grade 11 student in the MaST (Math Science and Technology) program at Danforth Collegiate and Technical Institute in Toronto, Ontario. Being the Vice President of my local Venturer Scout group, I love meeting new people and helping them out with whatever they need. This is what inspired me and my partner to develop a motion detecting device for the science fair. The hopes in creating this device was to be able help those recovering from surgery with their rehabilitation in addition to personal use at home to help people correct their walk and prevent future injuries. In the future we hope to be abl...

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$2 000



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

