



## CWSF 2014 - Windsor, Ontario



## Biography

I spend a lot of time focusing on academics, but that's not all I'm up to. Whether I'm playing hockey, going for runs, hanging out with friends or trying to get my patented hockey and football helmet design to market, I'm constantly doing something. I don't really get any time to be "bored" and I absolutely love that! I would like to be a mechanical engineer when I'm older and possibly run my own business. I have strong interests in product design and in 3D modelling to really interpret and analyze all of my designs. I have been using SolidWorks 3D CAD software for a couple of years now and it has helped me at my summer job at an engineering company and also with this 3D medical scanner project. I think even with my keen focus in engineering, I am really driven by more. My motivation stems from "WHY I am doing something" and that helps me find inspiration for my projects or ventures. I always look to pursue something in the science and engineering field, but hope to find and idea that can help make a difference in the lives of others on a large scale.



## **Daniel McInnis**

## Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design

Challenge: Innovation		
Category:	Senior	
Region:	Ottawa	
City:	Ottawa, ON	
School:	St. Francis Xavier High School	
Abstract:	By developing an improved method for low-budget structured light scanning, extremely high resolution 3D scans were achieved. This scanner has shown to be a valid option for making comfortable, but low-cost prosthetic limbs that are aesthetically accurate for the users wearing them. Also, this scanner is the first to show potential for being the correct solution for accurately matching donor limbs with ideal recipient amputees.	

Awards	Value
The Manning Innovation Achievement Award	\$500
Sponsor: Ernest C. Manning Awards Foundation	
The Manning Innovation Achievement Award	\$4 000
and \$4000 Manning Young Canadian Innovation Award	
Sponsor: Ernest C. Manning Awards Foundation	
Challenge Award - Innovation - Senior	\$1 000
Sponsor: BlackBerry	
Excellence Award - Senior - Gold Medal	\$700
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
University of Windsor Entrance Scholarship	\$5 000
Grand Award Recipient - \$5000 Entrance Scholarship	
Sponsor: University of Windsor	
University of Windsor Entrance Scholarship	\$2 000
Senior Challenge Award Recipient - \$2000 Entrance Scholarship	
Sponsor: University of Windsor	
Best Project Award	\$10 000
Sponsor: BlackBerry	
Total	\$45 200

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

