



CWSF 2008 - Ottawa, Ontario



Evan Woo, Tony Xiao

Your life or your car? AirCrumble lets you have both.

Division: Earth & Environmental Sciences / Automotive

Category: Senior

Region: Greater Vancouver

City: Vancouver, BC, Burnaby, BC

School: Vancouver College, Burnaby North Secondary

Abstract: During a great number of low speed collisions, vehicles can be severely

damaged, resulting in expensive repairs and even total loss. Inspired by the Mars Exploration Rovers, AirCrumble is a system that deploys external airbags in front of vehicle bumper moments before impact. This leads to longer stopping distance, which reduces or even eliminates damage done

to the vehicles while further protecting the passengers.

Biographies

Evan - Evan Woo was born on February 3. 1990 in the small northern town of Vanderhoof, BC and lived in Fraser Lake during his younger years. Science has always intrigued him ever since his elementary years. He passed his elementary years often pondering about nature's workings and reading archives of Popular Science magazines. His educational growth later influenced his family to relocate to the city of Vancouver where he currently resides. Moving from a village of no more than 2000 to the grand city of Vancouver came to him as an absolute shock. Evan is currently attending his grad year at Vancouver College, an all-boys private Catholic school. As ... Tony - A young scientist and aspiring entrepreneur, Tony is extremely passionate about science, technology, and the implications they have on society. Ever since he was a child, he has had two idols -Einstein and Bill Gates. Until recently he was terribly torn between NASA and Wall Street. However, he managed to resolve this dilemma and channel his passions for both deciplines by striving to use business to promote fruits of science. The honours he has received include gold medals from RBC/Shad Entrepreneurship Cup, Junior Achievement BC Second Place, MusicFest Canada Gold Award, Avogadro National Top 5%, among other academic honours. Tony's intere...

Awards	Value
The Manning Innovation Achievement Award	\$500
Sponsor: Ernest C. Manning Awards Foundation	.
Petro-Canada Peer Innovation Award - Senior - Western Canada	\$200
Sponsor: Petro-Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
NSERC Undergraduate Student Research Award - Senior Gold Medallist	\$5 625
Sponsor: Natural Sciences and Engineering Research Council of Canada	
(NSERC)	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
The University of Western Ontario Scholarship	\$2 000
Gold Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
The University of Western Ontario Scholarship	\$1 500
Silver Medallist - \$1500 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$20 000
Senior Gold Medallist - \$20,000 Entrance Scholarship (\$5,000 each year	
for 4 years)	
Sponsor: University of Ottawa	
University of Ottawa Entrance Scholarship	\$3 000
Senior Silver Medallist - \$3000 Entrance Scholarship	
Sponsor: University of Ottawa	
Silver Medal - Computing & Information Technology - Senior	\$700
Sponsor: Intel of Canada, Ltd.	
Gold Medal - Automotive - Senior	\$1 500
Sponsor: AUTO21	
Total	\$43 025

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