

CWSF 2016 - Montreal, Quebec



Michael Wolfe

Wi-Tricity on Wheels: Solar/Hydro Hybrid Wireless Charging of Electric Vehicles

Challenge: Innovation

Category: Junior

Region: Bay Area

City: Burlington, ON

School: Trinity Christian School

Abstract: This project utilizes green renewable solar/ hydro fallback hybrid energy technology, and wireless charging technology creating an EV charging system, after several modifications, an innovative design was created. Testing was conducted to measure system charge time of a non-scale car battery and solar/ hydro energy utilization. I also developed a mathematical model approximating real world application of the prototype. A green, wireless exciting future awaits!

Biography

My name is Michael Wolfe and I am a grade 8 student at Trinity Christian School in Burlington, Ontario. My favorite subjects are Math and Science. I have two pets, a dog named Lassie and a cat named Misty. I am 13, have a passion for discovery and I very excited to participate in the Canada Wide Science Fair. In my spare time I take karate and am working my way up to a black belt. Also I'm working on experiments in my science lab. My grandfather, engineer and inventor showed me Electric Vehicle technology and because of that I have developed my charging system. I am really interested in further exploring the field of electronics and developing my system further. I can't wait to experiment more and find more fascinating results! A green, wireless, exciting future awaits!

Awards

Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 000