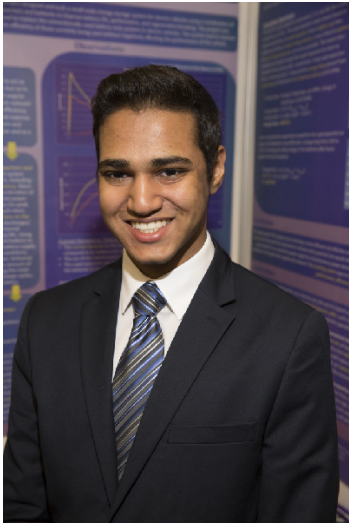


CWSF 2016 - Montreal, Quebec



Priyank Patel

Hybrid Supercapacitor ? Battery System for Electric Vehicles

Challenge: Energy

Category: Senior

Region: Lambton County

City: Sarnia, ON

School: Northern C.I. & V.S.

Abstract: Electric cars are considered to be the future of automobiles, replacing the conventional gasoline powered vehicles of today. Though being much more green, electric vehicles must overcome many obstacles to truly be a viable replacement. This project designed and built a small-scale energy storage system for electric vehicles using a combination of supercapacitors and batteries to improve battery life, performance, and regenerative braking.

Biography

My name is Priyank Patel and I am a student at NCIVS in Sarnia, ON. I have a passion for science, which has driven me to participate in the Science fair. I plan to pursue a career in the field of science through post-secondary school and later. My project focused on increasing the efficiency of electric vehicles. By designing a hybrid system that incorporated both supercapacitors and batteries, I was able to drastically improve the acceleration of the vehicle while, at the same time, increasing the longevity of the batteries. As a science fair participant myself, I would strongly recommend participating in a local science fair, as it is a great learning experience with lots of opportunities.

Awards

Value

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