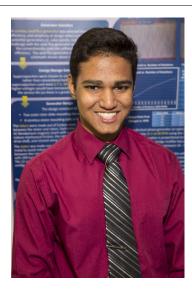




CWSF 2015 - Fredericton, New Brunswick



Priyank Patel

A Novel Approach to Energy Generation & Storage: Axial Flux with Supercapacitors

Challenge: Innovation Category: Senior

Region: Lambton County **City:** Sarnia, ON

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

Abstract: The UN estimates that 1.5 billion people still live without easy access to

electricity. The goal of this project was to develop a method of generating and storing usable electricity from easily attainable kinetic motion, so it could to be used in areas deficient of electricity. This goal was met by designing/building an efficient, compact system that utilized an axial flux

generator and supercapacitors.

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. I am particularly interested in finding new ways to combat the severe lack of electricity in third world countries. 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	\$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



