

# 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 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 NCVS 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

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
<b>Total</b>	<b>\$2 000</b>