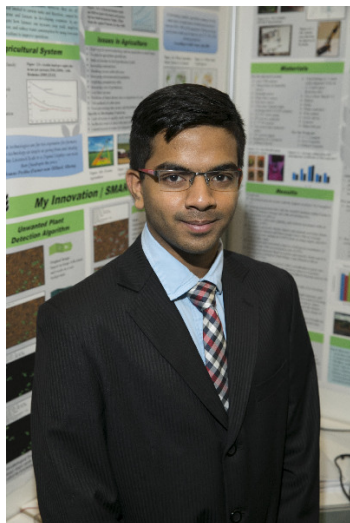


# CWSF 2017 - Regina, Saskatchewan



## Dhvani Patel

### SMART Agricultural Technology

**Challenge:** Resources

**Category:** Senior

**Region:** Wood Buffalo

**City:** Fort McMurray, AB

**School:** Westwood Community High School

**Abstract:** I developed low-cost agricultural technology to increase crop yield, improve livestock production, and reduce water consumption. My system can: detect and track livestock, automatically harvest and plant crops, identify unwanted crops, detect and identify crop diseases, recognize harmful objects or wild animals, automatically allocate water to areas of need, and provide real-time data about the soil, environment, and crop and livestock output to the farmer.

#### Biography

My name is Dhvani Patel and I am a grade 11 student from Westwood Community High School located in Fort McMurray, Alberta. One of my favourite things to do, and also my strength is coding. My favourite subjects are science (mostly physics and computer science) and math. My hobbies include designing websites and programming apps. I simply love technology and I recently ranked 2nd in Canada for the Canadian Computing Competition. I have also been on the robotics team for 4 years now and I was the lead programmer for our team during the FLL Razorback World Championship Tournament. I certainly plan on pursuing science in my future studies. Being a part of MACOY (Mayor's Advisory Council on Youth), along with my 8 years of soccer, has taught me that everyone has strengths that if combined, can accomplish anything.

#### Awards

#### Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	
Challenge Award - Resources - Senior Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$8 500</b>