

# CWSF 2017 - Regina, Saskatchewan



## Waleed Sawan

### Drip ? A Precision Agriculture System for the Developing World

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Thames Valley

**City:** London, ON

**School:** Oakridge S.S.

**Abstract:** 'Drip' is a low-cost, precision agriculture system designed to service the needs of farmers in developing nations. Utilizing a network of wireless field modules, IoT, farm cloud database and online APIs, key field data points are made available to the farmer to provide insight about crop growing conditions. Drip analytical tools facilitate better utilization of resources which improves crop yields and creates sustainable agriculture.

#### Biography

My name is Waleed Sawan, I am a grade 10 student and I attend Oakridge Secondary School in London, Ontario. I know 3 languages; English, Arabic and French. I was born in Newcastle Up-On-Tyne, England. I have lived in Canada since I was four years old and had the opportunity to travel to a number of other countries. Outside of school, I enjoy playing the clarinet, reading, writing, soccer, running. I participate in at school are band, robotics, math, cross-country, as well as mentoring an FLL Robotics Team at an elementary school. As well, I have started a foundation that mentors Developmentally Educated Students (DE) to create Engineering oriented projects for their local Science and Engineering Fairs. This is my third Canada Wide Science Fair. Some advice that I would give to other students thinking about doing a project is to take your time choosing a project that you like, because that is one of the hardest parts of doing a project. Choosing a project that you like will make it a lot easier and more enjoyable to do.

#### Awards

#### Value

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