



## CWSF 2018 - Ottawa, Ontario



## **Teodora Milos**

## A Novel Intelligent Irrigation System via Python Program

Challenge: Innovation Category: Senior Region: South Shore

Youth Science Canada

Pickering ON L1V 2R4

PO Box 297

416-341-0040

City: Bridgewater, NS

School: Park View Education Centre

Abstract: This project creates a technologically advanced, inexpensive, Intelligent

> Irrigation System based on python program residing on raspberry pi device (a minicomputer), that will save/reduce water consumption, fertilizer,

> calcium carbonate (CaCO3) and human resources. The Intelligent Irrigation

System is capable of responding based on multiple sensor inputs

(corresponding to environmental and soil parameters), and can be applied

to any type of environment and plant.

## **Biography**

I am a grade 11 student at Park View Education Centre, in Bridgewater, Nova Scotia. My interest in science has led me to participate in numerous science-based extracurricular activities, including math league, the Bluenose Coastal Action Foundation--where I work as an environmental education program supporter-and South Shore Robotics. I am also involved in volunteer work at my local hospital, and committee work as a member of my school's student council. In the future, I hope to go to the international Marine Advanced Technology Education (MATE) competition, representing my robotics team as a control systems engineer/programmer. My hobbies include gardening, creating computer programs, reading and crossfit. In my post secondary education, I hope to pursue computer science or physics.

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$1 000
Senior Bronze Medallist - \$1,000 Entrance Award	
Sponsor: Carleton University	
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	\$3 000





