

CWSF 2018 - Ottawa, Ontario



Teodora Milos

A Novel Intelligent Irrigation System via Python Program

Challenge: Innovation

Category: Senior

Region: South Shore

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 (CaCO_3) 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

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

