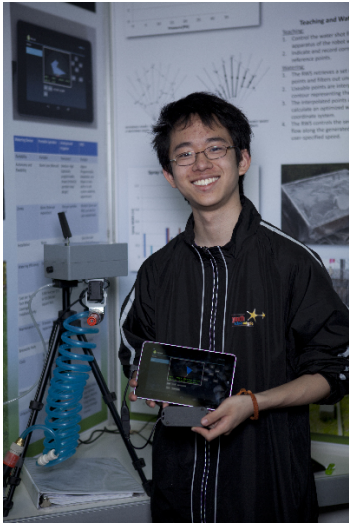


# CWSF 2013 - Lethbridge, Alberta



## Jerry Chen

### Improved Robotic Watering System

**Challenge:** Innovation

**Category:** Senior

**Region:** London District

**City:** London, ON

**School:** Central S.S.

**Abstract:** The Robotic Watering System (RWS) is a portable, cost-efficient robot that is able to water any user-defined shape while adjusting to changes in watering environments. The purpose of the project is to continue developing the RWS until it can become viable for real-world use.

#### Biography

My name is Junru (Jerry) Chen, and this is my second year participating in the CWSF. My hobbies include playing piano, reading novels, and programming. Ever since I was young I liked to fiddle and experiment with technology, and had a quirk for coming up with crazy ideas. The inspiration for my project, the Robotic Watering System, was triggered by observing how an elderly man watered his entire lawn without moving from his lawn chair. At that point, I decided to work on creating a robot capable of mimicking a human's ability to water any given shape while allowing people to save time, water, and money when watering their lawns. I plan to further improve my project, so that it is viable for use as a full product and allow it to benefit society in some way. For people who are looking to do a project: all you need is a dream. To do a project is to achieve making a dream a reality, to have the will to overcome any adversity that you face. Because in the end, it will all be worth it.

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	\$100
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>\$2 100</b>