

# CWSF 2012 - Charlottetown, Prince Edward Island



## Megan Gran

### Trashbot: The Path of the Future

**Challenge:** Innovation

**Category:** Junior

**Region:** Sudbury

**City:** Sudbury, ON

**School:** Algonquin Road P.S.

**Abstract:** A unique innovation that involved the programming of a robot to perform the task of taking the garbage to the end of the driveway. I went through trials and errors trying to correct my programs and adjusting my robot hardware so it would complete the task effectively. The principles could also be used in a wide variety of applications.

### Biography

I got the inspiration for my project by working in a robotics club run in my school using Lego Mindstorm robots, and I became interested in programming. Further expansion for my project would be to make my robot full size, to try it on my own driveway, and also I would like to add more sensors to improve my robot's performance. Advice for other students going into science fair: Start early and make a presentation before hand and practice it in a mirror. Always know what you look like. Some of my favourite things are animals. They are all so friendly to me. I am involved in many school activities such as the robotics club, choir, percussion, volleyball team, basketball team, soccer team, intramural badminton, and more. My favorite colour is lavender. What I plan to do in the future is to be a dentist. I have won many hockey awards, because when I was younger I played a lot of hockey, in an out of school team. I think one of the most pressing scientific issues of today is whether robots can be successfully integrated into society.

### Awards

### Value

Excellence Award - Junior - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$300
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$1 300</b>