



## ESPC 2018 - Ottawa (Ontario)



## Biographie

I am a grade 11 student at Glenlyon Norfolk School in Victoria, BC. I initially developed my interest in robotics in my childhood. I remember my mother buying me some Lego when I was 4, and since then robotics has become my passion. Robotics has provided me so much happiness. As I grew older, I have started learning about more complicated robots. On May 12th, 2008, a moment that I would never forget, was when the first great Wenchuan earthquake occurred. My grandparents were in Sichuan, a place very near to the epicenter of the earthquake. I remembered the suffocating feeling when I first saw the news, where rescuers were working as groups in the hazardous environment, trying their best to save more victims. I thought if robots could do the job for humans, both safety and efficiency of completing the task could be significantly increased. I plan to do further investigations on optimizing the algorithms for the robot group to increase their analytical abilities in changing environments. Doing a project requires ones' passion and perseverance. Be bold and creative. Believe in yourself and do what you love.

## **Albert Yang**

## Control for Groups of Robots - Collaborative Search and Rescue

Défi:	Innovation
Catégorie:	Sénior
Région:	Vancouver Island
Ville:	Vancouver, BC
École:	<b>Glenlyon Norfolk School</b>
Sommaire:	In this project, I designed a
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**nmaire:** In this project, I designed a group of robots to do collaborative search and rescue in ruins caused by natural disasters or in extreme environments. The robots can communicate and make decisions independently, dividing a rescue mission into sub-missions for everyone in the group. Once the target is found, the robot will send a message to inform others that the mission has been completed.

Prix	Valeur
Prix d'excellence - Senior - Médaille de bronze	
Commanditaire: Sciences jeunesse Canada	
Bourses de l'Université Carleton	1 000,00 \$
Médaillé de bronze, sénior - Bourse d'admission de 1 000 \$	
Commanditaire: Université Carleton	
Bourse d'admission de l'Université d'Ottawa	1 000,00 \$
Médaillé de bronze, sénior ? Bourse d'admission de 1 000 \$	
Commanditaire: Université d'Ottawa	
Bourse d'études de Western University	1 000,00 \$
Médaillé de bronze - Bourse d'admission de 1 000 \$	
Commanditaire: Université Western	
Total	3 000,00 \$



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