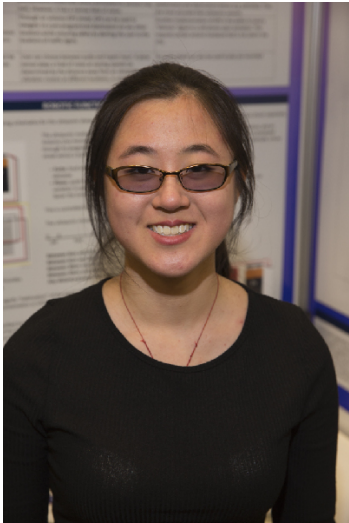


# CWSF 2016 - Montreal, Quebec



## Linda Guo

### In-Sight

**Challenge:** Innovation

**Category:** Senior

**Region:** Wood Buffalo

**City:** Fort McMurray, AB

**School:** Westwood Community High School

**Abstract:** "In-Sight" is a robotic device that provides GPS navigation and obstacle detection for the blind or visually impaired. It is designed for low-income families in both modern and developing countries, and can be easily attached onto a hat.

### Biography

My name is Ling Yi (Linda) Guo, and I am a Grade 12 student from Alberta. I enjoy building things and have a passion for hands-on learning and solving problems. In university, I plan to pursue a career in health sciences. My goal is to develop vaccines for different types of cancers, and incorporate robotic technologies into the diagnosis and treatment of patients. This year, I have developed a robotic module, named "In-Sight," to provide obstacle detection and GPS navigation for the blind or visually impaired with affordable and effective technology. I taught myself to use breadboards, Arduino, and programming. My advice to other students is to dream big, and not be afraid to try something new.

### Awards

### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
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>\$2 000</b>