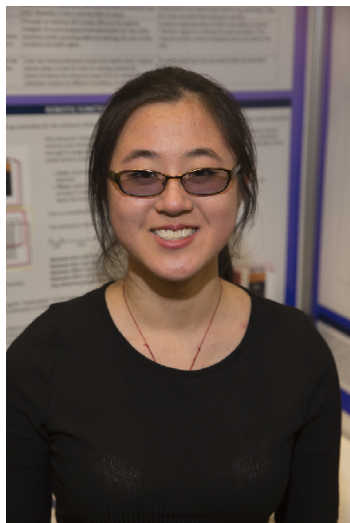


CWSF 2016 - Montreal, Quebec



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 |
| Total | \$2 000 |

