

# Zirui (Simon) Guo

## High School Student

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### Summary

A high school student in Toronto, Ontario, from Shanghai, China. Interested in using technologies and innovations to solve real-life problems.

### Education

#### International Baccalaureate and Ontario Secondary School Diploma

Upper Canada College  
2015.9 – now

#### Summer Programs

Various Institutions  
2015.7 - now

#### Middle School

Shanghai Huayu Private  
Middle School  
2012.9 – 2015.6

### Activities and Societies

Debate Team, Model United Nation, Robotics Club, Digital Media and Computer Science Club, Science Club, World Affairs Conference, Senior Wind Ensemble, Cross Country Team, Horizons Volunteer, College Times, Senior Math Society, Web Developer Community, HOSA, Peer Tutoring, Mandarin Club.

- University of Toronto Da Vinci Engineering Enrichment
- Program 2016 Canadian Mathematical Society Math Camp (Invitational) 2016
- John Hopkins University Center for Talented Youth 2015: Mathematical Logic

Head of College Film, Model Airplane Team, Robotics Club, Destination Imagination Team, Computer Science Society.

### Experience

#### Head of Finance

Canadian Independent  
School Chinese  
Association  
2016.9 - now

Fundraising for ChengBu project.

Organize bank account and incomes(donation).

Search and negotiate with sponsors.

Help organize networking and social events.

#### Sumobot Team Member

University of Toronto  
Robotics Association  
2016.9 - now

Create a sumo robot and compete in the annual sumo competition.

Attend workshops; Learn about Mechanical, Electrical, and Programming aspects of designing and building advanced robots.

#### Hackathons

Participated & Demoed  
2016.1 - now

UofTHacks 2016, Hack Western 2016, T.Hack 2016, Electric City Hacks 2016, Mentor at Local Hack Day 2016, Campus Ambassador for PennApps XV.

### Details

## Honors

### Science & Engineering

- Toronto Science Fair 2016: Gold Medal, The Life Labs Award
- Patent: ZL 2016 2 0049390.6 (P.R.China), Smart Walking Stick
- The 30<sup>th</sup> Shanghai Adolescents' Science and Technology Innovation Contest: Gold Medal; Shanghai Science and Technology Museum Award; The AURORA Group 3D Printing Application Award

### Mathematics

- Ranked 84<sup>th</sup> at Canadian Intermediate Mathematics Contest 2015, School Champion
- Ranked 179<sup>th</sup> at Pascal Contest 2016, 2<sup>nd</sup> at Upper Canada College
- 4th Upper Canada College Junior Math Olympiad Top Individual, School Champion
- Represented Upper Canada College to attend Harvard MIT Mathematics Tournament 2016
- John Hopkins University Center for Talented Youth Grand Award 2015

### Computer Science

- Bronze and SAP Innovation award at Electric City Hacks 2016.
- Best Devpost at Hack Western 2016.
- Best Project with Mentor at Cipher Presents Local Hack Day 2016 (Participated as a mentor)

### Others

- Duke of Edinburgh Bronze Award

## Projects

### Robotics & Engineering

- Hexapod Rescue Robot
- Smart Walking Stick
- Cat Rescue Robot

### Hackathons

- View my Devpost: <https://devpost.com/simonguozirui>
- Modular Agricultural & Environmental Scanning System
  - Auto-tone Woodwind Instrument
  - IoT Stress ball
  - Smart Push-up Shirt

### Computer Science

- AI Handwritten Digit Recognition

## Skills

**Languages:** English, Mandarin

**Programming:** ArduinoC, Java, Python, HTML5, CSS3

**Science:** Science Research, Physics

**Engineering:** Electrical Engineering, Robotics, Internet of Things

**Other:** Project Managing, Debate