

# Zirui (Simon) Guo

## High School Student

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### Education

#### **International Baccalaureate and Ontario Secondary School Diploma**

Upper Canada College  
2015.9 – now

#### **Summer Programs** Various Institutions 2015.7 - now

### Activities and Societies

Debate Club, Model United Nation, Robotics Club, Engineering Society (Co-founder), Digital Media and Computer Science Club (Hackathon Coordinator), Science Club, World Affairs Conference, Norval Labs, Senior Wind Ensemble, Cross Country Running Team, Horizons Volunteer, College Times, Senior Math Society, HOSA, Peer Tutoring, Mandarin Club

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

### Experience

#### **Co-founder and Co-Chair** hack.init() 2017.2-now

Co-founded and organize hack.init(), China's premier and biggest youth hackathon and the first high school hackathon that promotes inclusivity and cultural diversity.

#### **Innovator** The Knowledge Society 2017.2-now

Discuss with industry leaders and like-minded youths on the future of cutting-edge technologies, and create innovative solutions towards real-life problems.

#### **Event Coordinator** Toronto Hacker Club 2016.12-now

Promote computer science education across the GTA through tech-related workshops and hackathons.

My role consists: website building, event planning, create event schedule, mediate workshops, order food and drinks for the event, post-event clean-up.

#### **RoboSoccer and Sumo Team Member** University of Toronto Robotics Association 2016.9-now

RoboSoccer: Create 4 humanoid robots to participate in RoboCup Soccer (humanoid kid size category). Part of the control (electrical and mechanical design) system team.

Sumo: Attend weekly workshops on mechanical, electrical, and embedded system of robot design. Create a sumo robot individually and compete in the annual sumo competition.

#### **Hackathons** Participated & Demoed 2016.1 - now

UTSHacks I, PennApps XV (as a campus ambassador as well), Hack the Valley 2017, Mentor/Hacker Guru at Local Hack Day 2016, Electric City Hacks 2016, T.Hacks 2016, Hack Western 3, UofTHacks IV

### Details

## Honors

### Science & Engineering

- Toronto Science Fair 2016: Gold Medal, The Life Labs Award
- Patent: CN205285316U, 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

### Computer Science

- Best Pitch at UTSHacks I 2017
- Best Project with Mentor at Cipher Presents Local Hack Day 2016 (Participated as a mentor/hacker guru)
- Bronze and SAP Innovation award at Electric City Hacks 2016
- Best Devpost submission at Hack Western 2016

### Mathematics

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

### Others

- Duke of Edinburgh Bronze Award (2016)

## Projects

### Robotics & Engineering

- RoboCup Humanoid Soccer Robot
- Sumo Robot
- Hexapod Rescue Robot
- Smart Walking Stick
- Cat Rescue Robot

### Hackathons

- View my Devpost: <https://devpost.com/simonguozirui>
- Modular Agricultural & Environmental Scanning System
  - Auto-recognition educational trash bin
  - Auto-tone Woodwind Instrument
  - IoT Stress Ball
  - Smart Educational Trash Bin
  - Supermarket Item Comparison App
  - Smart Push-up Shirt

### Computer Science

- AI Handwritten Digit Recognition (MNIST)

## Skills

**Languages:** English, Mandarin (bilingual level)

**Programming:** ArduinoC, Java, Python, HTML, CSS

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

**Science:** Science Research, Physics

**Other:** Project Management, Event Planning