

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

Middle School
Shanghai Huayu Private
Middle School
2012.9 – 2015.6

Activities and Societies

Debate Club, Model United Nation, Robotics Club, Engineering Society (Co-Founder and Club Executive), 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

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

Experience

Event Coordinator Toronto Hacker Club 2016.12-now

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

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

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

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: CN205285316U, Smart Walking Stick
- The 30th Shanghai Adolescents' Science and Technology Innovation Contest: Gold Medal; Shanghai Science and Technology Museum Award; The AURORA Group 3D Printing Application Award

Mathematics

- Ranked 84th at Canadian Intermediate Mathematics Contest 2015, School Champion
- Ranked 179th at Pascal Contest 2016, 2nd 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

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

Others

- Duke of Edinburgh Bronze Award (2016)

Projects

Robotics & Engineering

- 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-tone Woodwind Instrument
 - IoT Stress ball
 - Supermarket Item Comparison App
 - 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