

Zirui (Simon) Guo | 郭子睿

Maker, Hacker, & Innovator

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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

Robotics Club, Engineering Society (Co-founder), Digital Media and Computer Science Club (Hackathon Coordinator), Science Club, World Affairs Conference, Norval Labs, Debate Club, Senior Wind Ensemble, Debate Club, Cross Country Running Team, Peer Tutoring, Rowing Team

- 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

Mentor at NxtHacks, DementiaHack 2017, 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 30th 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 UTS HACKS 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 84th at Canadian Intermediate Mathematics Contest 2015
- Ranked 179th 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/simonguoizirui>
- Remote Dementia Research & Monitor Platform
 - Modular Agricultural & Environmental Scanning System
 - Auto-Recognition Educational Trash Bin
 - Auto-tone Woodwind Instrument
 - IoT Stress Ball
 - 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, JS

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

Science: Science Research, Physics

Other: Project Management, Event Planning