

# Brian Chen

www.brianc.me

brianchen118@gmail.com | (+61) 478 135 322 | brian.chen1@uqconnect.edu.au

## EDUCATION

### UNIVERSITY OF QUEENSLAND

Bachelor of Engineering (Software)

Feb 2016 - Nov 2019 (anticipated)

GPA 7.0 / 7.0

- Computing Society • Robotics Club
- Robogals • Hawken Scholars Program
- Science Undergraduate Society

### UT AUSTIN

Computer Science | Study abroad

Aug 2017 - Dec 2017

### BRISBANE BOYS' COLLEGE

High School

Feb 2011 - Nov 2015

Dux of the School

Australian Tertiary Admission Rank (ATAR) 99.90

## LINKS

Github:// [github.com/brianc118](https://github.com/brianc118)

LinkedIn:// [linkedin.com/in/brianc118](https://www.linkedin.com/in/brianc118)

Website:// [brianc.me](http://brianc.me)

## SKILLS

### PROGRAMMING

Over 5000 lines:

C++ • Python •  $\text{\LaTeX}$

Over 1000 lines:

C • C#/.NET • Java • Matlab

Familiar:

Android Dev • Git • HTML • CSS

• Javascript

### OTHER

• Vim • Autodesk Inventor • Autocad

• Altium Designer • Cadsoft Eagle

## EXPERIENCE

### QUEENSLAND BRAIN INSTITUTE | Undergraduate Researcher

Nov 2016 - Feb 2017

- Developed a flexible axon guidance simulation tool to understand the quantitative effects of molecular cues *in vivo*. Worked in the **Goodhill lab**.

### BRISBANE BOYS' COLLEGE | Robotics Coach

Feb 2016 - Present

- Training a group of students for competing in the Open and Lightweight Soccer divisions of Robocup Junior.

## PROJECTS

### DRIVESAFE | Team [Unearthed Hackathon 1st Place]

April 2017

Team developed a platform for giving commercial vehicle driver's instantaneous feedback on their driving safety & performance and offered seamless integration of their workflow.

### SELF-BALANCING BALLBOT | Personal

Oct 2015 - Dec 2015

Created an omnidirectional robot that balances on any sufficiently sized ball.

Experimented with various control systems and ultimately ended up using PID control on each axis. Can be controlled via **Bluetooth**. See my **blog posts**.

### AUTONOMOUS SOCCER ROBOTS | Team [RoboCup Junior]

Feb 2013 - Oct 2015

Developed the software in C++ for two soccer playing robots that communicated via XBee radio. Implemented **goal tracking** using CMUCam5. Designed most of the PCB, CNCed, and laser cut parts. **Represented Australia** in 2015 after winning the national competition in 2014.

## COMMUNITY

2016 Robogals UQ - encouraging girls in robotics/STEM via workshops

Jul 2016 Referee for Robocup Junior Australia

Aug 2016 Fundraising for Heartkids Australia via Bridge to Brisbane

2015 Volunteer for Access Street Vans

2012 - 15 Volunteer for Salvation Army Red Shield Appeal

2012 - 15 Fundraising for Amnesty International 40 Hour Famine

## AWARDS / COMPETITIONS

2017 University Frank Joseph Murphy Bursary for Exchange Studies

2017 Local Unearthed Hackathon 1st Place - **DriveSafe**

2016 University UQ Summer Research Scholarship

2016 University UQ Academic Excellence Scholarship

2015 International Robocup Junior Superteam 1st Place

2015 National/State ATAR 99.90 and QCAA Academic Commendation

2015 High School Dux of the School

2015 Top 103 in Aus Australian Mathematics Olympiad (invitational)

2014 National Robocup Junior Australia Open Soccer 1st Place

2012-2014 State Thiess Spaghetti Bridge Competition 1st Place