

Brian Chen

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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

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

SKILLS

PROGRAMMING

Over 5000 lines:

C++ • Python • \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 as part of the **Goodhill lab**.

BRISBANE BOYS' COLLEGE | ROBOTICS TRAINER

Feb 2016 - Present

- Training a group of around 15 students for competing in the Open and Lightweight Soccer divisions of Robocup Junior. See bbcrobotics.org for team websites created by students.

PROJECTS

SEARCH AND RETRIEVAL UAV | COMPETITIVE/TEAM

Feb 2017 - Current

Working as part of UQ UAS to compete in the **UAV Medical Express Challenge**

PREDICTIVE MUSIC PLAYER | PERSONAL

Nov 2016 - Current

Using user data to predict the next song that a user will **likely want to play**. Current features used include user activity (using Google's API), time, accelerometer data, and GPS. It is built on top of **Vanilla Music Player** and still in its early stages.

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 PLAYING ROBOTS | COMPETITIVE/TEAM

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. See our website at pi.bbcrobotics.org.

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 - reaching out to the homeless and hungry
- 2012 - 15 Volunteer for Salvation Army Red Shield Appeal
- 2012 - 15 Fundraising for Amnesty International 40 Hour Famine

AWARDS / COMPETITIONS

- 2017 Local Unearthed Hackathon 1st Place
- Winning solution *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