

Brian Chen

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EDUCATION

UNIVERSITY OF TEXAS AUSTIN | Undergraduate Researcher
Computer Science | Study abroad
Aug 2017 - Dec 2017

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
 Website:// brianc.me

SKILLS

PROGRAMMING

Over 5000 lines:

C++ • Python

Over 1000 lines:

C • C#/.NET • Java • Matlab

Familiar:

Android Dev • Git • HTML • CSS

• Javascript

OTHER

- Vim
- Autodesk Inventor
- Autocad
- Altium Designer
- Cadsoft Eagle

RELEVANT COURSEWORK

- Algorithms & Complexity
- Machine Learning
- Principles of Computer Systems

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 to compete in the Open and Lightweight Soccer divisions of Robocup Junior.

PROJECTS

WIFREE | Team [HackMIT]

September 2017

Service with optional Android/iOS apps allowing users to get directions to nearest free WiFi access point by sending an SMS message. Built with Twilio (messaging), Foursquare (WiFi locations), Google Maps and hosted on Google Cloud. See **Github repo** and **website**.

DRIVESAFE | Team [Unearthed Hackathon 1st Place]

April 2017

Platform for commercial vehicle drivers and managers to receive continuous feedback on driving safety/performance. See **blog post**.

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 **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

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 Thies Spaghetti Bridge Competition 1st Place