

## Education

- **Sydney Boys High School** 2011–2016  
*High School*
  - Higher School Certificate (HSC) Band E4 Mathematics Extension 1 & 2
  - HSC Band 6 Software Design and Development
- **University of New South Wales** 2015  
*High School Computing (HS1917)*
  - Computing 1: HD
- **University of New South Wales** 2017–Current  
*Bachelor of Science (Computer Science)*

## Projects

- **libinput** 2016–2017  
*Open-source contribution* *C*
  - libinput is a library to handle input devices in Wayland compositors and a X.Org driver.
  - Implemented switch interface and feature to disable touchpads when laptop lid is closed.
  - Mentored by maintainer (Peter Hutterer).
- **Placebook** 2016  
*National Computer Science School (NCSS) 2016* *Python, SQL, JavaScript*
  - NCSS is a 10-day summer school in programming and web development for talented high school students.
  - Placebook is a social networking website to introduce lesser known places to a wider audience.
  - Designed database schema, wrote database backend and a map view using OpenStreetMap.
- **Athletics Management Program** 2015–2016  
*HSC Software Design and Development* *Visual Basic .NET, SQL*
  - Designed and wrote an application to facilitate management of an athletics program.
  - Intended to replace non-integrated VB6, Excel and PHP applications currently in use.
- **Knowledge Island** 2015  
*Computing 1 (COMP1917)* *C*
  - “Knowledge Island” is a game similar to Settlers of Catan.
  - Designed and implemented according to a specification.
  - Implementation, unit tests and AI player automatically tested in daily rounds.
- **Autonomous Reverse Parallel Parking Car** 2014  
*Information and Software Technology* *NXC*
  - Designed, built and programmed a vehicle using a LEGO MindStorms robotics kit.
  - Vehicle searches for and reverse parallel parks into spaces, while obeying road rules and avoiding collisions.
- **SBHS Timetable** 2014–2015  
*Personal* *Python, JavaScript, Java, PHP*
  - Timetable viewer and lesson countdown for students, interfacing with school portal API.
  - Available as a web app and an Android app.

## Volunteering

- **Mentor - HS1917** 2016–2017
  - Mentored high school students taking COMP1917

## Awards and Achievements

UNSW Programming Competition 4th Place (\$200 award, \$2000 scholarship)	2016
NCSS Challenge Advanced Perfect Score	2014–2016
ICAS Science Competition Medallist	2015
Grok Learning Security Hall of Fame	2015
Australian Informatics Olympiad Bronze Medal	2015
UNSW Programming Competition 6th Place (\$100 award)	2014

## Skills

**Programming Languages:** Proficient: Python (6 years experience), C (3 years experience)  
Known: Java, JavaScript, Visual Basic.NET, PHP

**Other Languages:**  $\text{\LaTeX}$ , HTML, CSS, Markdown

**Miscellaneous:** Software configuration management, troubleshooting and debugging skills, problem solving skills, teams skills, soldering

## Interests

**Sports:** Fencing

**Computers:** Configuring computer systems, Free software movement, computer hardware

**Music:** Piano (AMEB Certificate of Performance)

**Other:** Rocketry and spaceflight

Compiled April 11, 2017