

# Anthony Carbone

Sydney, Australia

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## Summary

Third year Aerospace Engineering and Advanced Physics student with an avid interest in serving Australia's developing space industry. I am a multi-disciplinary problem-solver who makes sure to be exposed to and employ a diverse range of technologies in my projects and studies. I have experience in robotics, electrical and mechatronic subsystem design, web development, academic research, and as a glider pilot. I wish to expand to space-based technologies, space operations, machine learning, and software development.

## Programming



## Software



## Experience

### International Centre for Radio Astronomy Research

UWA, Perth

SUMMER INTERN

Nov. 2020 - Feb. 2021

- Investigated applying the JPEG2000 based webp.js library to remotely viewing very large image radio astronomy spectral data cubes.
- Presented recommendations to AusSRC for development of webp.js as a viable product for future SKA use.

### Autonomous Vehicle Competition - ENGG1000

UNSW, Sydney

TEAM LEAD

Feb. 2019 - Mar. 2019

- Lead a team of 6 first-year students to win the courses' internal track competition.
- Programmed the autonomous robot in Arduino (C/C++).
- Applied small motors, laser-cut gears, and servos.
- Designed and built an effective power distribution system with a 3s LiPO battery and Veroboard.

### Warman Design & Build Competition, UNSW Qualifier

UNSW, Sydney

TEAM MEMBER

May. 2019 - Sep. 2019

- Worked in a team of 6 to qualify to represent UNSW at the global competition in parallel with studies.
- Designed and built powerful servo and motor subsystems, and an effective power distribution system with two 3s LiPO batteries.

### Gliding Club of WA

Cunderdin, WA

AWARDED MOST ADVANCED BEGINNER PILOT

2018 - 2019

### International Astronautical Congress

Adelaide

STUDENT ATTENDEE

Sep. 2017

### United Space School

Houston, TX, USA

STUDENT

Jul. 2016

- Planned and presented a theoretical mission to Mars in a team of 40 international students.
- Awarded a flown Texas flag for extraordinary achievement, only five were awarded.

## Education

### University of New South Wales

UNSW, Sydney

AEROSPACE ENGINEERING (HONS) · ADVANCED PHYSICS (HONS)

Feb. 2019 - 2024

- 84 average mark | Dean's Honours List, UNSW Engineering School

### Trinity College

East Perth

WESTERN AUSTRALIAN CERTIFICATE OF EDUCATION

Jul. 2014 - Nov. 2018

- 99.60 ATAR | Head of Year 12 Award | Top student in state for Aviation ATAR

## Interests



## Volunteer

### Edmund Rice Camps WA/NSW

Perth & Sydney

VOLUNTEER LEADER

Jul. 2017 - Present

### UNSW Hall

Sydney

HOUSE PRESIDENT

2020

### UNSW Mechanical Engineering Students Society

Sydney

SECRETARY, FIRST & THIRD YEAR REPS

Mar. 2019 - Present

## References Available Upon Request

