

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 creative 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 hope 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 webjip.js library to remotely viewing very large image radio astronomy spectral data cubes.
- Presented recommendations to AusSRC for development of webjip.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

