





Anthony Carbone

CV

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Executive Summary

Third year Aerospace Engineering and Computer Science student with an avid interest in Australia's developing space industry. Multi-disciplinary problem-solver with exposure and experience in a diverse range of technologies through projects and studies. Experience in software development, robotics, academic research, and piloting gliders. Wishes to expand to space-based technologies and space operations.

Education

- Feb. 2019 – Present **Aerospace Engineering (Hons) / Computer Science**
UNSW, Sydney
- 83 Weighted Average Mark
 - Dean's Honours List, UNSW Engineering School (2019)
- Jul. 2014 – Nov. 2018 **Western Australian Certificate of Education**
Trinity College, East Perth
- 99.60 ATAR
 - Head of Year 12 Award
 - Top student in WA for Aviation ATAR

Technical Skills

Programming:

- Python
- C
- Git/GitHub/GitLab
- Linux
- Jekyll (static site generator)

Engineering:

- SolidWorks
- Fusion 360
- ANSYS Workbench
- MATLAB
- LaTeX

Experience

- 17 – 18 Jul. 2021 **UNSW CSESoc Hackathon Beginner's Prize**
- Prototyped and pitched a scholarship search and crowdfunding service to enhance the connection between scholarships and eligible students.
 - Awarded \$150 cash prize by a Prospa judge for extraordinary beginner achievement.
- Nov. 2020 - Feb. 2021 **Summer Research Intern**
International Centre for Radio Astronomy Research - UWA, Perth
- Investigated applying the JPEG2000 based webpip.js JavaScript library to remotely viewing very large image radio astronomy spectral data cubes.
 - Presented recommendations to the Australian SKA organisation (AusSRC) for development of webpip.js as a viable product for future SKA use.

- May. 2019 - Sep. 2019 **Warman Design and Build, UNSW Qualifier** – UNSW, Sydney
- 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.
- Feb. 2019 - Mar. 2019 **Autonomous Vehicle Team Lead** – UNSW, Sydney
- Lead a team of six first-year students to win the courses' 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.
- 2018 – 2019 **Most Advanced Beginner Pilot Award** – Gliding Club of WA
- Awarded Most Advanced Ab-Initiation Pilot by the Committee.
 - Flew first solo flight at age 17 with only 18 flights of experience (typically takes 30+ flights).
- Sep. 2017 **International Astronautical Congress Student Attendee** – Adelaide
- Attended the annual Congress in Adelaide where over 6000 participants from the sector communicate developments in academia and industry.
- Jul. 2016 **United Space School** – Houston, TX, USA
- Awarded a scholarship by Trinity College to attend the two week-long program along with 40 other international students.
 - Worked in the Mars Transit team to plan a theoretical mission to Mars in association with experience NASA staff.
 - One of five participants awarded a flown Texas flag in recognition of extraordinary achievement.

Additional Experience

- Jul. 2020 – Present **Private Tutor** – Self-employed, Remote/In-person
- Tutored over 15 High-School/University students in Maths, Physics, and Chemistry.
 - Maintain positive client relationships, experience, and service.
 - Manage invoices and accounts for students.
- Jul. 2019 – Present **Customer Service** – UNSW Fitness & Aquatic Centre, Sydney
- Serve patrons with membership and facility enquiries.
 - Achieve membership sales targets.
 - Work in the team of 15 staff to operate the large centre safely.
- May 2019 **Soldering Workshop Leader**
UNSW School of Electrical Engineering & Telecommunications, Sydney
- Ran soldering workshops for 50 High School, University, and International students.

Volunteer

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| 2020 | President - UNSW Hall, Sydney <ul style="list-style-type: none">• Led the House Committee in delivering social, sports, and cultural events for the 180 residents.• Worked with the Dean and Deputy Deans of the College to create a positive, safe, and inclusive resident experience. |
| 2021, 2020, 2019 | Third Year Rep., Secretary, First Year Rep.
UNSW Mechanical Engineering Students Society |
| 2020 – Present | HSE Committee Undergraduate Representative
UNSW School of Mechanical & Manufacturing Engineering <ul style="list-style-type: none">• Advise the Health, Safety, and Environment committee on undergraduate student matters. |
| Jul. 2017 – Present | Volunteer Leader – Edmund Rice Camps WA/NSW <ul style="list-style-type: none">• Deliver five day camps for disadvantaged children in teams of 25+ volunteers. |

* References available upon request