Anthony Carbone
Resume

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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 – 2024 **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**
- Designed, built, and pitched a novel scholarship search and crowdfunding service to aid scholarship-hunting students to industry representative.
- Awarded $150 cash prize by a Prospa representative for extraordinary beginner achievement.

Nov. 2020 - Feb. 2021 **Summer Research Intern**
International Centre for Radio Astronomy Research - UWA, Perth
- Investigated applying the JPEG2000 based webjpip.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 webjpip.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-Inition 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. 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.

| May 2019 | **Soldering Workshop Leader** |

UNSW School of Electrical Engineering & Telecommunications, Sydney

- Ran soldering workshops for 50 High School, University, and International students.

| 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.

Volunteer

| 2020 | **President** - UNSW Hall, Sydney |

- 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 | **Health, Safety, and Environment Committee Undergraduate Representative** |

UNSW School of Mechanical & Manufacturing Engineering

| Jul. 2017 – Present | **Volunteer Leader** – Edmund Rice Camps WA/NSW |

- Deliver five day camps for disadvantaged children in teams of 25+ volunteers.

* References available upon request