Matthew Sanetra

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Education

Bachelor's, Computer Science, University of Oxford **Oct 2022 - Paused**

- Computer Science subject representative.
  - Key contact between students and department staff.
  - Ensuring feedback and changes improve outcomes for future students.
- Societies: Rowing, Robotics and Additive Manufacturing, Rocketry.
- Currently paused studies due to familial matters.

A Levels, Hammersmith Academy **Sept 2020 - Aug 2022**

- Grades: A*A*AB in Computer Science, Maths, Further Maths, Physics.
- Member of the Sixth Form Leadership Team.
  - Began a successful initiative to reform the dress-code and lateness policy.

Experience

Sales Associate, Oddono's Gelati Italiani **July 2022 - Sept 2022**

- Demonstrated the ability to serve customers in the busiest shop on Chiswick High Road (>£2000 daily gross revenue, peak ≈£7000).
- Created end-of-day reports, handled cash register accounting, took deliveries, opened and closed shop.
- Loved working with people, gaining valuable experience working in a tight-knit and highly organised team.

Projects

Gana, thecsw/gana **Nov 2022 - Present**

- Core contributor to a Go generics library
- Used internally (in a limited fashion) at Microsoft.

Rocket Guidance Computer, *in Kerbal Space Program* **July 2020 - Present**

- Currently developing a compiler for my own domain-specific language with the Rust programming language, targetting kOS Machine Code.
- Developed rocket guidance that recreates a SpaceX Starship landing.
  - Video 1, Video 2

Self-Driving Car, *funded by the Mark Evison Foundation* **May 2021 - Sept 2021**

- Collaborated in a group of 6.
- Implemented a test harness to allow simulating and testing the Raspberry Pi and the immediate surrounding environment, enabling test-driven development of control algorithms.
- Programmed in Python, utilising OpenCV.

Racing Boat Autopilot, *IET Faraday Challenge Days* **May 2017 - July 2017**

- Competition to develop a product to help the Land Rover BAR team win the America's Cup.
- Led a team of 6 to place first in the UK.
- Devised embedded software optimising and balancing speed gain and manual steering ability via sail orientation.