Anna Soligo

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Education

PhD Candidate | *Imperial College London*   *2023 - 2027*

Addressing the challenges of robustness and interpretability of reinforcement learning in autonomous agents through the application of bio-inspired reasoning architectures

MEng Design Engineering, First Class Honours | *Imperial College London*   *2019 - 2023*

Awards - Institute of Engineering Designers Prize for Outstanding Performance, Dean's List Years 1-4

Thesis - Enabling Ultra-High Efficiency UAV Delivery through Integration with Public Transport

- Proposed the concept of delivery drones hitch-hiking on public transport.
- Designed and built a wireless-charging quadcopter for autonomous deliveries.
- Analysed and validated the efficiency through routing analysis using London transport data.

Lady Margaret Secondary School   *2011 - 2018*

A-Levels - Mathematics A*, Further Mathematics A*, Physics A*, Chemistry A*, Fine Art A*

Extended Project Qualification - To what extent is an observer effect required to explain quantum mechanics?

Experience

CEO and Co-founder | *CLIP Energy*   *January 2023 - present*

Developing a deep-learning powered sensor to empower households to reduce their energy consumption. Funded and supported by Innovate UK, Imperial Enterprise Lab and the Grantham institute for Climate Change.

Teaching Assistant | *Imperial College London*   *April 2021 - present*

Running tutorial sessions and marking work across Computing, Robotics and Electronics modules.

UAV Design-Engineer | *Dufour Aerospace, Zürich*   *April 2022 - September 2022*

Developed the new-generation of Dufour's tilt-wing test-platform, the 'Aero-Mini'. Employing a fast innovation pipeline of ideation, prototyping and testing to improve aircraft performance, safety, and appearance.

Skills

Prototyping | 3D printing, Laser cutting, CNC, Carbon-Fibre Lay-Up, Micro-controllers, Electronics

CAD | Onshape, Fusion 360, Solidworks, Simulation

Code | Python, MatLab, Labview, CSS, HTML, JS

Adobe | Illustrator, InDesign, Photoshop, After Effects

Languages | English and French (mother tongues), Italian and German (working knowledge)

First Aid | Outdoor First Aid - RQF level 3 (2021)

Other Activities

Climbing and Mountaineering

Member of the Young Alpinist Group - a team of ten climbers selected to "advance the next generation of world-leading young UK alpinists". Supported by Petzl, Mountain Equipment, La Sportiva and the Alpine Club.

Volunteering

The Ideas Lab - Maintaining equipment, running student inductions and teaching CAD sessions. (2020-2023)
Imperial College Mountaineering Club - Committee roles of gear-secretary and vice-president. (2020-2022)