

Anna Soligo

Portfolio | www.annasoligo.com

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Education

Dyson School of Design Engineering, Imperial College London | *MEng Design Engineering*

2019 – 2023

1st and 2nd years – 1st class grades and Dean's List Awards (top 10% of students)

Modules Studied – Engineering Mathematics, Mechanics, Electronics, Computing, Physical Computing, Production and Materials, Finite Element Analysis, Data Science, Thermofluids, Human Centred Design, Sustainable Design, Industrial Design, Working in Organisations

Example Projects:

Lightweight Tandem Bike Frame Optimisation

A bicycle frame designed using finite element analysis to inform the selection of materials and structural dimensions, in order to minimise the frame's mass while fulfilling functionality and durability constraints.

Draw-E – An Interactive Cardboard Machine

A drawing and painting cardboard robot, which is controlled remotely using a custom-coded web app (HTML, CSS and JavaScript) hosted on a micro-controller.

Self-Balancing Segway

A mini 2 wheel vehicle, which uses proportional integral derivative control to self balance, while performing real-time signal processing in order to detect and 'dance' to the beat of music.

Lady Margaret Secondary School

2011 – 2019

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?

GCSEs – 11 x A*

Employment

Imperial College Head Lab | *Research Assistant*

April 2021 – present

Developing a LabView programme and virtual user interface to replace a previous set up using manual button controls, in order to easily control lab equipment and collect and process data.

Dyson School of Design Engineering | *Computing Teaching Assistant*

April 2021 – present

Running weekly tutorial sessions and being a first point of contact for students on the first year Computing 2 module.

The Climbing Hangar London | *Rock Climbing Instructor*

2016 – present

Qualified climbing coach, running group and private coaching sessions for adults and children from the age of 5. (Qualifications: MT Development Coach, Safeguarding & Protecting Children, BMC Fundamentals 1 and 2)

Neuro-Assets | *Research Assistant*

June 2017

A confidential research project to help a medical and business consultancy assess the feasibility of a project.

Volunteering and Leadership Positions

The Ideas Lab, Imperial College London | *Student Expert*

2020 – present

Helping to maintain equipment such as 3D printers, running student inductions and teaching Fusion-360 sessions.

Madagascar Big Wall Climbing | *Expedition Leader*

2021 TBC (Postponed from 2020)

Wrote trip proposals for a team of 7 climbers to travel to Madagascar. (Grants received from the British Mountaineering Society, the Imperial College Exploration Board, the RDC Foundation and the Royal Mayors 500th Anniversary Fund)

Imperial College Mountaineering Club | *Vice President, Gear Secretary*

2020 – present

Responsible for organising UK and overseas trips and competitions for Imperial's climbing club

Other Skills and Qualifications

Prototyping | 3D printing, Laser cutting, Electronics

CAD | Solidworks, Solidworks Simulation, Fusion 360

Coding | Python, MatLab, HTML, JavaScript, CSS, Labview

Adobe | Illustrator, InDesign, Photoshop, After Effects

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

Driving Licence | Clean, UK Category B1

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