

Anna Soligo

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Education

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

2019 – 2023

1st year – 1st class grade and Dean's List Award (top 10% of students)

Modules Studied – Engineering Mathematics, Mechanics, Electronics, Computing, Production and Materials, Data Science, Thermofluids, Human Centred Design, Sustainable Design, German Level 1

Example Projects:

JUNO Sustainable Toy Subscription (2nd Year)

A system concept which reduces the material and energy use of the baby toy sector (by an estimated 91%), using design for disassembly and recycling principles. It fulfils the parents' need for convenience and distinguishes itself from existing systems by providing a platform to monitor and enhance the baby's cognitive and motor development.

48+ Locking Bicycle Rack Design (1st Year)

A bicycle rack which fully secures a bike's frame and wheels, for use in the city. Designed in response to London cyclist's concerns about theft, and their annoyance at having to carry heavy locks. It is operated using a contactless card.

Web-app Controlled Model Car (1st Year)

A car which is controlled over Wi-Fi using a web-app run on a local server. Built using an ESP-32 controller. Coded using Python, Micro-Python, Javascript, HTML and CSS.

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? A

GCSEs – 11 x A*

Employment

The Climbing Hangar London | *Rock Climbing Instructor*

2016 – present

Qualified climbing coach, running group and individual sessions for adults and children from the age of 5.

(Qualifications: Mountain Training Foundation 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 to climb multi-day climbing routes up to 800 vertical metres, and successfully applied for funding. (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*

2020 – present

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

Wandsworth Disability Swimming Squad | *Swimming Teacher*

2015 – 2016

Running one-to-one swimming lessons with 5-16 year olds with varying levels of mental and physical disabilities.

Other Skills and Qualifications

Prototyping | 3D printing, Laser cutting, Electronics

CAD | Solidworks, Solidworks Simulation, Fusion 360

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

Adobe | Illustrator, InDesign, After Effects, Premiere Pro

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

Driving Licence | Clean, UK Category B1

First Aid | Emergency First Aid at Work

Violin | Grade 5

Hobbies and Travel

Indoor and Outdoor Rock Climbing | Including multi-pitch routes in the Alps and Scottish winter climbing

Slacklining and Highlining | Rigging and walking on tensioned webbing lines up to 200m above the ground

From 2018-19, I travelled around Europe and South Africa, taking volunteer roles such as helping build a climbing wall in Sicily and bolting new climbing routes in Bosnia. Travelling alone and making many international friends was eye opening, and I taught myself Italian in this time.