

JULIA ELKOUBY

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A tri-lingual first-class honours graduate from UCL in Mechanical Engineering (MEng) with the skills and desire to create a sustainable future.

WORK EXPERIENCE

SEPTEMBER 2022 – PRESENT

SUSTAINABILITY CONSULTANT, ACCENTURE

- Managed full Scope 3 projects keeping to timelines and resources. Delegated project work to analysts for various projects and trained them to analyse data for clients.
- Developed bespoke EEIO models for clients to comply with GHG Scope 3 Protocol. Maintained the emissions factor database for the in-house carbon reporting software.

APRIL 2022 – AUGUST 2022

SUSTAINABILITY SENIOR DATA ANALYST, AVIECO

- Used the **GHG Protocol** to evaluate and measure **full Scope 3 analyses** to measure different companies' carbon footprint and impact on the environment. Takes part in complex projects using **Alteryx** to analyse and leverage **data insights** for clients.
- Developed an internal **Quality Assurance** process and trained analysts to elevate the quality of data in Avieco.
- Produced reports using **Alteryx** to analyse anomalies and to check quality of data and gather insights for reporting.

NOVEMBER 2020 – MARCH 2022

SUSTAINABILITY DATA ANALYST, AVIECO

- Works with many clients to measure their carbon footprint and create **SECR reports** as well as more detailed analyses using Microsoft Excel, Power query and **PowerBI** programmes. Has also taken part in a variety of projects relating to **net-zero** strategies and **CDP** reporting.

JULY 2019 – AUGUST 2019

ONSHORE WIND DEVELOPMENT COVENTRY, E.ON CLIMATE & RENEWABLES

- Developed an understanding of the **Environmental Impact Assessment (EIA)** and wrote a generic timeline for all the tasks to be used in **MS Project** in the future. Made a financial model to show the suitability of battery technology for wind farms as well as exploring the technology and how it is being used around the world. Given basic training in **GIS**.

AUGUST 2018 – NOVEMBER 2018

DEBT INSIGHTS TEAM, E.ON UK

- Learnt to use **SQL** to gather data on customers and optimize debt systems in E.ON UK. Utilising mobile technology, conducted a trial to test hypothesis and presented findings to management board at E.ON. This was then implemented as part of the debt recovery process.

APRIL 2018 – JUNE 2018

STUDENTSHIP, UCL

- Programmed and improved the current prototype of a stem cell centrifugation machine. Introduced a hall-effect rotary sensor, optimised the programming and interface. All programmed in **LabVIEW** to allow non-engineers to use as well.

EDUCATION

2015-2020

MECHANICAL ENGINEERING (FIRST-CLASS HONOURS-MENG), UNIVERSITY COLLEGE LONDON

AUTO-SORT - AUTOMATED RECYCLING BIN (TEAM 4TH YEAR PROJECT)

- Took on the role of Team Leader in this self-proposed project to design and build a solution to sort recycling. Researched and tested different material recognition methods from sound sensing to image recognition. Developed a control system that allowed items to be separated automatically and sorted into bins efficiently.
- Developed an innovative way to identify food contamination on packaging and a business plan to show how Auto-Sort could be a viable business. The bin developed in a video can be viewed here: <https://youtu.be/ejoGLqEJ8Rw>

AORTIC HEART VALVE BIOREACTOR (INDIVIDUAL 3RD YEAR PROJECT)

- Used CATIA and knowledge of fluid dynamics to design a system to test the calcification of heart valves
- Used manufacturing experience to build the system design and tested it against the brief. Programmed the control of the system in LabVIEW and introduced a thermal control to mimic the biomechanical heart conditions as accurately as possible. This will be further optimised in future research by UCL.

2008 - 2015

STREATHAM AND CLAPHAM HIGH SCHOOL (YR7-11) & ALLEYN'S (6TH FORM)

- **A-Levels:** Maths (A*), Further Maths (A), Physics (A), Latin (A) & Italian (A)
- **GCSEs:** 13 A*'s (In main subjects as well as History, Spanish, Design and Technology, IT, Latin, French and Italian)

VOLUNTEERING

SEPTEMBER 2019 – MAY 2020

GREEN IMPACT PROJECT ASSISTANT, UCL

- Volunteered to help the ICH department make sustainable changes in their office. Led meetings to discuss and helped conduct audits in the office to see where improvements could be made around the office. This included screensavers to remind office workers to turn off their computers, recycled paper in printers and ways to offset travel emissions.

JUNE 2016 – MAY 2018

UCL WOMEN IN ENGINEERING SOCIETY, MARKETING MANAGER & PRESIDENT

- As Marketing Manager, took charge of the marketing of our events and making the public image for the society and communicating to student representatives across faculties about events and opportunities.
- Responsible for running and organising the events. Created links with the industry so that our members are offered career advice and volunteering. Partnered with schools in Ghana to offer a mentoring scheme. Also joined with Work Ready Graduates to offer our members free online courses.
- Worked on a series of podcasts for our members to give young graduates answers on how to be authentic and promote themselves both in the workplace and in life.

SKILLS

- **Languages:** English (fluent), Italian (fluent), French (fluent), Spanish (conversational), German (A1 achieved)
- Valid UK Driving Licence

Baking and Cooking: I have written and self-published a Christmas Cookbook called "Adventure Calendar". It is available on Amazon.

IT:

- **Proficient:** Microsoft Package (incl. Pivot Tables), Power Query, PowerBI, Alteryx, C++ (Arduino), Solidworks, LabVIEW, SQL & CATIA ;
- **Learning:** Java, Python (Raspberry Pi), MATLAB, & GIS

REFERENCES AVAILABLE ON REQUEST