

Recent Masters graduate in Energy and Environmental Management with core interests in energy transition, sustainability, and a carbon neutral future. I greatly enjoy problem solving and I am highly motivated and hardworking. I am comfortable working autonomously and as part of a team.

Education

2019 – 2020: MSc Energy and Environmental Management | University of Twente | Distinction

Thesis Title: Assessing the biomass potential for supplying an increased blending mandate in Argentina with a focus on food security. [Grade - 85%]

Using the BEFS RA framework (designed by the Food and Agriculture Organisation), I performed a detailed assessment of the potential for increasing biofuel production in Argentina in line with existing governmental policy. The study involved an assessment of the country context, data collection and analysis of the energy and agriculture sector, calculation of feedstock potential and an economic feasibility assessment of potential changes to policy.

Skills developed

- Independent project management skills relating to the development of a geothermal energy project at Drachten Hospital aimed at achieving a carbon neutral system by 2025. Worked in a multidisciplinary team advising on technical, economical, and social considerations concerning this development. Included research into technological pathways, consulting stakeholders in local government, and providing economic appraisal to calculate the energy costs of the potential projects.
- Demonstrated rapid progress and learning in new fields with minimal supervision including energy and environmental management.
- Developed knowledge relating to national energy policy, sustainability law and energy audits, and certification.
- Strong communication skills, both written and verbal, developed through presentations and report writing.

2014 – 2018: BEng (Hons) Chemical Engineering | Swansea University | 2:2

Skills developed

- Developed understanding of broad engineering concepts, including thermodynamics and fluid mechanics, chemical processes, including process modelling and reactor design, and collection and analysis of data relating to process equipment in lab work.
- Developed understanding of low carbon technologies including hydrogen economy, fuel cells, photovoltaic cells and battery storage options.
- Project design skills relating to the design of a polycarbonate process plant as part of the final year group design project. Working in a team of five, the study consisted of chemical process selection, energy and mass balance calculations, reactor selection and design, economic appraisal and costing, process safety and environmental assessment.
- Developed skills relating to delivering a specified project with a team, problem solving and analytical thinking.
- Introduction to MATLAB, Aspen Plus and UniSim software.
- Proficiency in Microsoft Office.

2012 – 2014: A Levels | Sackville Sixth Form, East Grinstead

Spanish (A), Mathematics (B), Chemistry (C), Further Mathematics (D), AS Physics (C).

2010 – 2012: GCSE's | Sackville School, East Grinstead

3 grade A*, 5 grade A (including Maths and English), 3 grade B.

Further training

January - Present 2021: Geographic Information Services (GIS) Online Specialisation | University of California, Davis

- Completed the first two courses in this specialisation which provided me with the fundamental knowledge of Arc GIS.
- Introduction into exploring and analysing data, working with raster and vector data, using geoprocessing tools to analyse data and produce results, and creating maps from datasets to visualise the results.

November - December 2018: Wind Energy Online Course | Technical University of Denmark

- Introduction to main principles relating to wind energy including wind resources, aerodynamics, and materials.
- Covered calculation relating to thrust and power, beam theory, and economic costs of wind power.
- Explored variations in turbine design and material properties and modelling wind speeds to assess energy production.

November - December 2018: Global Environmental Management Online Course | Technical University of Denmark

- Introduction to environmental technologies for global sustainable development.
- Covered the basics of global trends relating to sustainability and climate change, environmental management approaches, utility, and waste management.
- Explored technologies including solid waste handling, sustainable soil management, and integrated water resource management.

Work experience**October 2018 – May 2019: Barista | Malabar Coffee House, Sevenoaks**

Furthered my skills in communication and working closely as part of a small team and gained an understanding of how small businesses work. Responsibilities included opening and closing the shops, stock management, operating and cashing up the till and doing the daily banking.

July 2017 – August 2017: Summer Placement | Integrated Water Services, Walsall

Summer placement at IWS, a subsidiary of South Staffs Water PLC. On the placement I worked in a variety of departments and was able to gain an overview of the whole process of acquiring and completing water projects to supply drinking water. Workshop: I was introduced into the mechanical procedures required to keep the water network running smoothly and I assisted in dismantling, cleaning, and restoring industrial scale pumps and tubes. Engineering: I was introduced into the engineering side of the business where I worked with the engineering team both in the office, sizing the pumps for the projects, and in the field at both developing and existing sites. I gained insights into the challenges of water supply and how new technologies are implemented into the system to provide a better service. Health and Safety: During the time I was assigned to the H&S department I was tasked with producing H&S reports and I was able to observe the importance of sustainability and the consideration taken for the local environment and wildlife. My placement at IWS provided me with a broad grounding in and understanding of how professional industry works, specifically the water industry.

June 2016 – September 2016: Kitchen Staff | The Ounce and Ivy, Wetherspoon's East Grinstead

Developed good communication skills, as well as the ability to work under pressure and maintain a high quality of service whilst meeting strict deadlines for orders. Responsibilities included opening the kitchen and running the breakfast and lunch service, quality control and ensuring cleanliness and health and safety standards were upheld.

July 2015 – September 2015: Bar Staff | The Flying Horse, Wetherspoon's Gatwick

Developed strong customer service skills, teamwork, working effectively during busy periods to ensure fast turnover of customers. Responsibilities included operating the till and dealing with customer satisfaction.

April 2013 – September 2014: Shop Floor Assistant | Homebase, East Grinstead

Developed customer service skills by dealing with the public, as well as time keeping and organisation skills relating to stock rotation. Role involved organising and managing garden section, pricing and stock reduction and assisting customers with orders and with complaints and queries.

Interests and Hobbies: Scuba diving, Radio/Music, Art, Chess.

Languages: Trilingual (fluent English, Spanish, and Catalan).

Computer Literacy: MS Office, MATLAB, UniSim, Aspen Plus, Arc GIS, Tableau.

References

Available on request.