MIRIAM SAID

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Mechanical Engineer, working in Quality Assurance, enthusiastic about innovation, industrial design and entrepreneurship. A proven track record of delivering projects in a fast-paced environment. Capable in applying technical and business knowledge to engineering problems. Experienced in creating technical requirements to articulate improvement opportunities in design and software roles. Worked as part of a team to deliver innovative solutions including an automated recycling bin design and an electric scooter project. A graduate of the Engineering with Innovation and Entrepreneurship Masters at UCL.

INDUSTRY EXPERIENCE

Quality Assurance Technologist, One Retail Group, London **Apr 2021-Current**

- Ensure that all products taken to market meet strict quality and regulatory compliance standards across multiple regions by planning and overseeing the inspection, testing, construction checks and product technical file compliance documentation.
- Analyse and investigate product complaints, quality issues and returns data to produce suitable actions / improvement plans to ensure we surpass customer expectations.
- Review and maintain supplier quality management systems and undertake supplier performance reviews, handle critical quality incidents, prepare and complete corrective action plans and arrange samples to be sent for testing with third party test houses.

Web Designer/Social Media Manager, St Mark Coptic Church, London **Mar 2020-Current**

- Applied HTML and CSS to support website design, focusing on feature layouts and maintenance. Collaborating with a team of experienced web developers and software engineers to undertake a complete website upgrade enhancing the usability of features.
- Responsible for making graphics and videos for various to social media platforms.

Work Experience, DARGROUP, Dar Al-Handasah, London **Oct 2015**

- Attended cross-departmental design reviews with engineers and architects at the feasibility stage to agree on the direction of the project and assign follow-up actions.
- Supported architects in the wider team by utilising AutoCAD to model housing designs.

Deli Assistant / Barista, Carluccio's, South Kensington, London **Jul 2018-Mar 2019**

EDUCATION

University College London, Engineering with Innovation and Entrepreneurship (MSc) **Oct 2020**
Achieved Grade: Distinction. Accredited by the IMechE.
Modules: Materials & Fatigue, Applications of Biomedical Engineering, Mastering Entrepreneurship, Entrepreneurial finance, Project Management and New & Renewable Energy Systems.

Individual Thesis - "The Design of The FloBoat, A Floating Beach Wheelchair"

- Designed a CAD prototype and simulated real-life scenarios of a floating beach wheelchair for wheelchair users in the water, on the beach and across additional terrains.
- Conducted user-specific research to develop technical and business design requirements.
- Implemented spiral design approach containing tasks such as, hydrostatics, stability, and material selection to identify the optimal material, composites and lay-up directions.
- Created a comprehensive CAD model on SolidWorks that was further examined using Finite Element Analysis (FEA) software's (ANSYS and SolidWorks Design Study) to simulate real-world mechanical stresses, identify weaknesses and optimise the final structure.
- Compiled manufacturing and business plans to assess the financial feasibility of the FloBoat product, yielding healthy gross margins and a positive 5-year forecast of the product.

Group Innovation Project - "The Design of an Automated Recycling Bin"

- Led a team of engineering students to create an automated recycling bin design.
- Responsible for the design, modelling, analysis and image recognition of the automated bin using programming, CAD and FEA ensuring the bin functioned correctly and efficiently.
- Configured a Raspberry Pi computer using Python to capture logos/labels to retrieve details of material and recyclability of the disposed of product from a Google API.

Cardiff University, Mechanical Engineering (BEng) **Jun 2019**
Achieved Grade: 1st Class Honours. Accredited by the IMechE.
Participated in multiple design and innovation projects alongside key engineering modules such as: Fluid Mechanics, Solid Mechanics, Dynamics, Thermodynamics, Renewable Energy Systems, Manufacturing Systems and Object-Orientated Computing (C++ and MATLAB).

Individual Dissertation - "The Finite Element Analysis of a Tidal Turbine"

- Enhanced the internal blade design of a Horizontal Axis Tidal Turbine (HATT) by investigating simulated CFD water pressure data and using ANSYS static structural and ACP(Pre/Post) to determine a suitable material, internal structure and composite layup.

The Cardinal Wiseman Sixth Form, A-LEVELS & GCSES **Jun 2014-2016**
A-Levels (A*- B): Math's, Further Math's, Physics | *GCSE's* (A*- B): Including Maths and History

POSITIONS OF RESPONSIBILITY

Teach Church Sunday School to year 8 children **2019-Current**

Volunteered in Maseno & Nairobi, Kenya **Jun 2017/2019**

- Donated medical equipment to hospitals whilst providing clothes/food to local villages.
- Assisted with building churches in rural villages, including plastering and painting walls.
- Gained knowledge and insight on challenges endured by citizens of a developing country.

Tutored young adults in A-Level mathematics **2014-2016**