### **MIRIAM SAID**

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Junior Mechanical Design Engineer enthusiastic about innovation, product 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**

# ST MARK'S CHURCH

#### Web Designer, St Mark Coptic Orthodox 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.

#### Work Experience, DarGroup, Dar Al-Handasah, London

Oct 2015

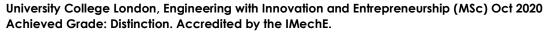
- Attended cross-departmental design reviews with engineers and architects at the feasibility stage to agree on the direction of the project and assign follow-up actions.
- Supported architects in the wider team by utilising AutoCAD to model housing designs.

Deli Assistant / Barista, Carluccio's, South Kensington, London Sales Assistant, Zara, White City, London Sales Assistant, The Perfume Shop, Ealing Broadway, London Jul 2018 – Mar 2019 Jul 2016 –Aug 2016

Jul 2015 - Oct 2015



#### **EDUCATION**



Modules include; Materials and Fatigue, Biomedical Engineering, Mastering Entrepreneurship, Entrepreneurial finance, Project Management and New and 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.



Jun 2019



■ 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 - 201

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 Volunteered in Maseno & Nairobi. Kenya

2019 - Current 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

