11RIAM SAID

London, UB6 8RP. Email: miriamsaid.ms@gmail.com portfolio: https://miriamsaid.github.io/home/ Tel: +44 7449484540

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

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

- 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.

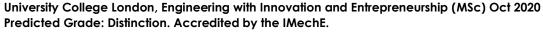
Deli Assistant / Barista, Carluccio's, South Kensington, London Sales Assistant, Zara, White City, London Sales Assistant, The Perfume Shop, Ealing Broadway, London

Jul 2018 - Mar 2019 Jul 2016 -Aug 2016

Jul 2015 - Oct 2015



EDUCATION

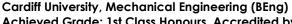


Modules include; Materials and Fatigue, Biomedical Engineering, Mastering Entrepreneurship, Entrepreneurial finance, Project Management and New and Renewable Energy Systems. Individual Thesis - "The Design of The FloBoat, A Floating Beach Wheelchair"

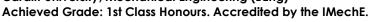
- Designed a CAD prototype and simulated real-life scenarios of a floating beach wheelchair for wheelchair users in the water, on the beach and across additional terrains.
- Conducted user-specific research to develop technical and business design requirements.
- Implemented spiral design approach containing 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



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

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, Kenva

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

