

# MIRIAM SAID



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## OBJECTIVE

I am a recent Master of Science Engineering graduate seeking to exploit my creative skills and talents within an excellent engineering role.

## SKILLS

### Software and Coding Languages:

CAD (SolidWorks), ANSYS, MS Photoshop, C++, Python, MATLAB, HTML, CSS.

### Operating Systems:

MS Windows (Word, Excel, PowerPoint), iWork (Pages, Numbers, Keynote).

### Language Skills:

English (Fluent), Arabic (Fluent).

### Personal Skills:

Effective listener and communicator | High level of organisation and time-management | Motivated when working towards goals and overcoming challenges | Key analytical mind-set when met with problems | Appreciate the efficiency of a strong team dynamic.

## VOLUNTEERING & LEADERSHIP



Volunteered in  
Maseno & Nairobi,  
Kenya



Tutored young  
adults in A-Level  
mathematics



Teach Church  
Sunday School to  
year 8 children

References are available upon request

## EDUCATION

### Engineering with Innovation and Entrepreneurship, Master's in Science (MSc) | 10/2020

University College London - Predicted Distinction

Completed engineering and entrepreneurship modules accredited by the Institute of Mechanical Engineers.

#### Individual thesis - "The Design of the FloBoat, a Floating Beach Wheelchair"

- Successfully designed a floating wheelchair that provides support to individuals when in the water and on the beach.
- Coordinated a unique design approach containing tasks such as material selection, hydrostatics and stability assessments to identify the optimal material, composites and lay up directions.
- Created a comprehensive CAD model analysed using both SolidWorks Design Study and FEA 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 a positive 5-year forecast of the product.

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

- Configured a Raspberry Pi computer using Python to capture logos and labels to retrieve details on the material and recyclability of the disposed of product.
- Oversaw the image recognition process, design, modelling and analysis of the automated bin using programming, CAD and FEA ensuring the bin functioned correctly and efficiently.

### Mechanical Engineering, Bachelor's in Engineering (BEng) | 06/2019

Cardiff University - 1st Class Honours

Participated in multiple design and innovation projects alongside key engineering modules such as fluid mechanics, solid mechanics, materials and fatigue, renewable energy systems, manufacturing systems and object-orientated computing.

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

- Investigated and enhanced the internal blade design of a Horizontal Axis Tidal Turbine (HATT) based on process variables such as material selection, internal structure and composite layup.

### A-LEVELS & GCSES | 06/2014-2016

The Cardinal Wiseman Sixth Form

A-Levels: Math's (A\*), Further Math's (B), Physics (B)

GCSE's: 1 A\*, 4 A's, 5 B's

## EXPERIENCE

### Web Designer, St Mark Coptic Orthodox Church, London

03/2020 - Current

Responsible for current website design, focusing on features, layouts and overall design and maintenance. Currently refurbishing website, with a new and improved design and enhanced usability features. Working with a team of experienced web developers and engineers.

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

16 - 23/10/2015

Worked with a group of Engineers and Architects, overlooking and solving problems. Attended meetings held by the company to discuss their current projects, from which I gained insight into how the design process is enacted.

### Deli Assistant / Barista, Carluccio's, South Kensington, London

07/2018 - 03/2019

### Sales Assistant, Zara, White City, London

07/2016 - 08/2016

### Sales Assistant, The Perfume Shop, Ealing Broadway, London

07/2015 - 10/2015