

# MIRIAM SAID



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miriam-said

References are available upon request.

## Objective

I am a recent Master of Science Engineering graduate seeking to exploit my creative skills and talents within an excelling 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

## 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"

- Used a unique design approach containing design tasks such as material selection, hydrostatics and stability to design a wheelchair that provides support to individuals when in the water and on the beach.
- SolidWorks was used to create the final CAD model which was further analysed using SolidWorks Design Study and FEA on ANSYS Static Structural.
- Manufacturing and business plans were compiled to assess the financial feasibility of the FloBoat.

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

- The automated bin was able to detect packaged items and verify if a product was recyclable or non-recyclable using image recognition.
- I was responsible for the image recognition process, in which a raspberry pi was configured using python to capture logos and labels to gather corresponding information of products. I was additionally responsible for the design, modelling and analysis of the bin using CAD and FEA.

### 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"

- The aim of this project was to enhance the internal blade design of a Horizontal Axis Tidal Turbine (HATT) on the basis of process variables such as material selection, internal structure and composite layout.

### 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