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 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

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