

# GASIM AHMED

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## Education

**Imperial College London** – London, UK 2016-2020

*MEng Electrical and Electronic Engineering with Management – Expected 1st*

- Designed and built a prototype of a planetary rover that can be remotely controlled from a handheld device as well as relay sensor data and 'exorock' detections to the user
- Independently devised an innovative solution to drastically cut-down emergency medical services response times, and currently working with a team of peers to develop a prototype

**The British International School of Jeddah (BISJ)** – Jeddah, KSA 2003-2016

*International Baccalaureate (IB) Diploma*

*International General Certificate of Secondary Education (IGCSE)*

- Designed and developed a user-friendly program that organizes sporting events for the Student Council
- Balanced Student Council Executive Team Vice President duties with 4 demanding higher level IB subjects (Mathematics, Physics, Computer Science and Economics)

### Awards

Best Second Year Group Project – *Imperial College London* Jun 2018

Outstanding International Student (OIS) Award – *The University of British Columbia (UBC)* Feb 2016

International Baccalaureate (IB) Academic Scholarship – *BISJ* Oct 2014

Top in Saudi Arabia for International Mathematics – *Cambridge International Examinations* Feb 2014

## Experience

**Imperial College London** – London, UK Aug-Sep 2018

*Undergraduate Researcher, Intelligent Digital Systems Lab (iDSL)*

- Investigating the effects of quantization on the correlation of top results in Convolutional Neural Networks
- Developing a framework for and automating the correlation of top results investigation
- Investigating the effects of quantization on the robustness of Convolutional Neural Networks through their susceptibility to net attacks

**McKinsey & Company** – London, UK Apr 2018

*Discover Digital Programme*

- Examined a case study involving the development of a strategy to defend against digital attackers
- Reviewed and redesigned a substandard customer registration process
- Presented the case study findings
- Professional skills sessions on problem solving and design thinking

**Morgan Stanley** – London, UK Apr 2018

*Spring Intern*

- Work shadowed in the Institutional Securities Technology (IST), Enterprise Technology and Risk (ETR), and Corporate and Funding Technology (CFT) departments
- Insight sessions on the market and firm, as well as the IST, ETR and CFT departments
- Developed and presented a plan of action for a Directed Share Program in a group of 4
- Professional skills sessions on problem solving and logical thinking, pen and paper programming, as well as presentation and networking skills

**Imperial College Electrical Engineering Society** – London, UK Jun 2017 –

*Vice President (Industry)*

- Selecting target industry sponsors and determining the prices to be charged for 4 different sponsorship tiers (base, bronze, silver and gold sponsors), as well as recommending the services to be provided for each tier
- Liaising with industry sponsors on behalf of the society
- Organizing the annual careers fair, biweekly industry talks as well as bespoke events, such as hackathons, and activities to connect the society's members with industry

**Islamic Development Bank – ITFC** – Jeddah, KSA Aug-Sep 2017

*Risk Management Intern*

- Examined Murabaha trade financing opportunities and offered my recommendations on whether they should be pursued
- Reviewed and familiarized myself with extensive risk assessment guidelines for both countries and financial institutions as well as an operational risk framework and policy
- Assessed the ITFC's balance sheet, using financial ratios, and provided a short reflection
- Researched and delivered a presentation on the potential of bitcoin as an investment opportunity

*References available on request.*

## Languages

English First/Native Language  
Arabic First/Native Language

## Programming Languages

Java Intermediate  
C++ Intermediate  
SQL Intermediate  
ARM Assembly Intermediate  
MATLAB Intermediate

## Hardware Description Language

Verilog HDL Intermediate

## Hardware

FPGA Intermediate  
ESP8266 Intermediate  
Arduino Intermediate

## Recent Competition

UK Investment Banking Series Nov 2017  
Sales & Trading Challenge – Finalist  
*Achieved 2<sup>nd</sup> place out of 42 finalists in investment banking*

## Organizations

The Institution of Engineering and Technology  
Student Member Nov 2016 –

Institute of Electrical and Electronic Engineers  
Student Member Jul 2016 –

## Volunteering

Therapeutic Horse Riding Aid 2015  
Volunteered for Open Skies, a scheme that provides therapeutic horse riding for physically disabled children in Jeddah, Saudi Arabia.  
Awarded best volunteer.

Event Manager 2011 - 2012  
Independently organized One Day One Goal events in September of 2011 and 2012, in representation of the city of Jeddah. One Day One Goal is an annual global football (soccer) event initiated by the Peace One Day organization. The events in Jeddah were sponsored by Sports Look as well as United Parcel Service (UPS), and hosted by The British International School of Jeddah. The main purposes of the events were to increase the awareness of peace in the local community and raise funds for the Peace One Day organization.

## Activities and Interests

Imperial College Association Football Club  
Imperial College Model United Nations Society  
Imperial Entrepreneurs  
Guitar  
Programming