

# Sheamol Obeda

## University of Cambridge, Masters in Engineering

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### EDUCATION

#### King's College, University Of Cambridge

October 2018 – June 2022

*MEng – Class II.1* Information and Control Engineering

*BA Hons – Class I* Aeronautical and Aerospace Engineering

Papers include: Business Economics, Strategic Management, Environmental Sustainability within Business, Business Innovation in a Digital Age, International Business, Machine Learning, Deep Learning and Structured Data, Computer Vision

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### WORK EXPERIENCE

#### BidFX

5<sup>th</sup> Floor, York House, Kingsway, London

*Graduate Technologist*

October 2022 – Current

- Rotations in integration, infrastructure, and development operations
- Aided with migration of business model towards continuous integration and continuous delivery
- Technical communication with liquidity providers such as NatWest and Santander to set up cross connects for client use
- Collaboration with colleagues from multiple teams to solve problems such as CPU over heating issues and server deployment

#### Untitled Video Game Start-up

*Co-founder, Developer, Business Development Lead*

March 2023 – Current

- Founded a video game start up for the aim of development and production release
- Created and developed a unique interactive story
- Lead all marketing, crowd funding and business development for the project

#### King's College Summer Research Programme

King's College, Cambridge

*Cambridge Computer Lab – Student Researcher*

June 2021 – September 2021

- Created system to identify diseases in animals measured by comparing the output to over 200 data points, by analysing gait using computer vision and machine learning techniques
- Created a structured approach to analyse over 100 hours of video footage by implementing a convolution neural network
- Presented findings from project to a panel of academics in a end of project conference and Q&A panel

#### The MTC

Ansty Park, Coventry

*Design for Additive Manufacturing Team – Summer Intern*

July 2019 – September 2019

- Designed a system to reduce waste and streamline processes in additive manufacturing by using topology optimisation
- Solved tolerancing and geometric dimensioning problems by utilising toolboxes in Solidworks and NX

#### Sheamol Obeda Photographic Services

Cambridge

*Owner and Photographer - Portfolio on [Sheamol.com](https://www.sheamol.com)*

September 2018 – June 2022

- Constructed photography business with over 50 clients for services such as events, social media, fashion and portraits
  - Marketed services to over 10,000 people using social media and online engagement
  - Cultivated a digital presence to reach a wider audience by producing a website for potential clients to interact with
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### PROJECTS

#### Wireless Motion Capture

Centre for Advanced Photonics and Electronics, Cambridge

*Masters Project*

October 2021 – June 2022

- Recreated 3 dimensional motion of a model human arm by using body mounted accelerometers and gyroscopes
- Analysed motion data from sensor units by programming an Arduino and using MATLAB to process the data
- Achieved wireless communication from sensor units to remote processing unit using WiFi communication protocols

#### Natural Language Processing of Student Social Media Page

December 2021

- Tracking trends in the student body's collective thoughts by analysing over 200,000 Facebook posts made by an anonymous student confessions page
- Displayed collected data to a target audience of 100,000 followers by using natural language processing libraries and data visualisation and handling libraries such as pandas and matplotlib

#### Tennis Player Ranking

November 2021

- Ranking all tennis players from the 2016 championships from each player's performance statistics by using probabilistic machine learning techniques
- Predicting the outcome of future games by using methods such as Bayesian Inference, Gaussian Processes, and Latent Dirichlet Allocation

#### Integrated Design Project

February 2020 – March 2020

*Project Leader*

- Project leader for a team to deliver a fully autonomous robot to locate and pick up obstacles
- Superheaded design process for the team by keeping the team on target to deliver the milestones set
- Fabricated mechanical system to house all components by using Solidworks, LTSpice, 3D printing and laser cutting

#### Hack Cambridge

January 2020

- Created a prototype centralised data system to be used with medical records with a team of 3 other students
  - Implemented a data extraction system by combining Python and C++ with Microsoft Azure's optical character recognition
  - Represented the team to a panel of judges by creating a pitch deck and business strategy for the product
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## SKILLS

### ENTREPRENEURSHIP AND CHARITABLE INITIATIVES

#### King's Entrepreneurship Lab

September 2021 – June 2022

- Created business idea and developed said idea using resources provided throughout a week long conference
- Seminars included topics on start up funding, intellectual property law, and growing ideas into businesses
- Attended external speaker events from Herman House and Warren East

#### The Cambridge Period Project

September 2021 – June 2022

- Leading a charity with focus on providing period products to the Cambridge community
- Managed the marketing and development team, use social media (Facebook, Twitter, Instagram)

#### College Alumni Fundraising Campaign

December 2020

- Talking to college alumni over the phone to achieve highest number of calls over three consecutive weekends
- Secured over £20,000 of donations in total for use by the college for student amenities

### LEADERSHIP

#### Cambridge Cardboard Boat Race

*Treasurer*

April 2022 – June 2022

- Directed and marshalled the annual Cambridge Cardboard Boat Race with more than five thousand spectators
- Procured funding from sponsors used for waste management and equipment

#### Cambridge Students' Union

*Campaign Manager for Zaynab Ahmed*

March 2021, March 2022

- Led the winning team for two consecutive years: President 2022 and Access, Education and Participation Officer 2021
- Created and executed a campaign plan which included strategies for social media, flyering, hustings and speeches

#### Cambridge University TaeKwonDo Club

*President*

April 2021 – April 2022

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#### King's College Student Union

*Sports, Societies and Freshers Officer*

March 2019 – March 2020

- Spearheaded organisation and delivery of freshers week 2019
- Overlooked all student societies and sports within college

### SOCIAL MEDIA MANAGEMENT

#### Admin of anonymous student submissions page

March 2021 – June 2022

- Daily oversight of a Facebook page with over 21 thousand followers
- Moderation of submissions, posts and comments to this page

### OTHER ACTIVITIES

President of King's College Darkroom and King's College Cardboard Boat Club, Social Secretary for Cambridge University Ceilidh Band, Webmaster for *The Cambridge Period Project* and *Cambridge University BanglaSoc*, Reviewer of theatre productions for the *Varsity newspaper*, Crew member at 50 Years of Women at King's Festival, Cook and Team Lead at Cambridge Community Kitchen

## LANGUAGE AND IT SKILLS

**Languages:** English (Fluent), Bengali (Mother Tongue), BSL (Beginner), German (Beginner), Mandarin (Beginner),  
**Programming and Markup:** Python, Java, C, C++, SQL, MATLAB, git, Raspbian, CSS, HTML, Linux, cmd, L<sup>A</sup>T<sub>E</sub>X

## INTERESTS

**TaeKwonDo:** Black Stripe, British University Championships in Nottingham 2022, Varsity Squad for the University of Cambridge in 2022, 2020 and 2019

**Other Sports:** Surfing (Anglesey, Peniche, Newquay), Snowboarding (Val Thorens 2021), Rowing (Second Men's Boat, King's College 2019 and Northampton Time Trials, Bishop Vesey's 2017), Running (Cambridge Half Marathon, April 2022)

**Darkroom and Digital Photography:** Darkroom photography experience since 2011, exhibits in King's College and Birmingham Art Gallery, portfolio on Sheamol.com

**Improvised and Stand-up Comedy:** Stand up shows with the Cambridge Footlights in Cambridge and the Edinburgh Fringe, solo show in Val Thorens, improvised comedy shows with the Cambridge Impronauts in Cambridge, improvised musical shows with the Showstoppers in London

**Folk Musician:** Bodhran, Fiddle, and Accordion player, gigs in Cambridge, Oxford, Birmingham, Yorkshire, Devon and St Ives Music Festival