Sierra Bonilla

Multi-disciplinary Engineer

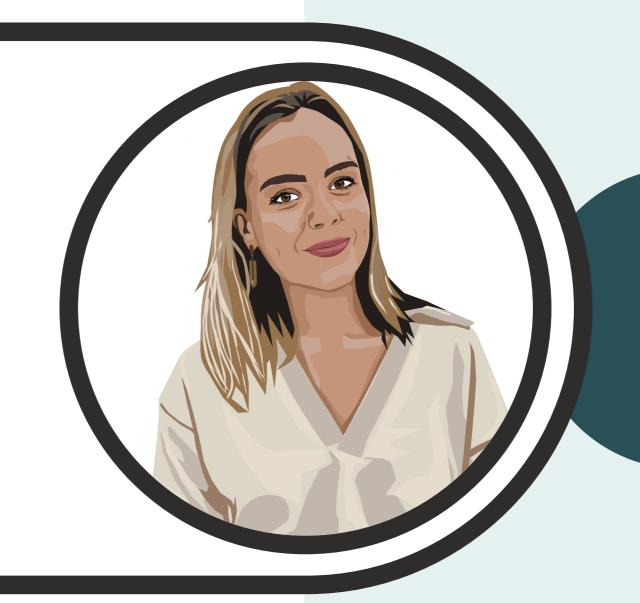
+44 7713 961437



sierrabonilla14@gmail.com



London, U.K.



EDUCATION



2021-2022

BIOMEDICAL ENGINEERING, MSc

University College London

Award: Distinction (pending completion)

Dissertation: Developing an algorithm for image registration

2016-2020

BIOENGINEERING, BSc

University of Washington

Award: Honors Minor: Mathematics

EMPLOYMENT HISTORY



2020-2021

MEDICAL DEVICE DESIGN ENGINEER

Otonexus Medical Technologies

Acoustic engineer at a start-up, used MATLAB, Python, acoustic and electrical technology. Streamlined transducer calibration process from 3 hours to 2 minutes per device.

2020-2021

CO-CREATOR/MANAGER FOR NFT PROJECT

OpenSea Marketplace

Created a successful NFT project, lead a small team of two other women, managed marketing, and co-created content.

2018-2020

RESEARCH ASSISTANT

University of Washington

Paid researcher at an ultrasound therapeutic research team focused on image optimization, CAD, and MATLAB simulations.

2019

FULL STACK DEVELOPMENT CONSULTANT

University of Washington Medical Center

Created a web application using Python to track and rate disease progression for Cerebral Palsy patients.

2016

MECHANICAL ENGINEERING INTERN

Intellectual Ventures

KEY SKILLS

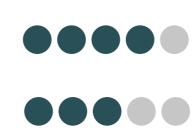


ENTHUSIASM

00000

00000

ELECTRONICS



MATLAB PYTHON

FUSION 360

ADOBE

0000

ABOUT ME



an internship role starting Seeking September 2022 where I can harness my technical skills and passion for software to improve the quality of human life. I am self-motivated and enjoy challenges. I thrive in start-up style environments and enjoy working as part of a small team.

I am pursuing a Master of Science in Medical Physics & Biomedical Engineering and will be pursuing a PhD in September 2023. I am highly multi-disciplinary, but some of my specialties include medical imaging, DSP, MATLAB, Python, research planning and execution.

ACHIEVEMENT



2021-2022

ACADEMIC REPRESENTATIVE

University College London

2017-2020

DEAN'S LIST

University of Washington

2018-2019

CERTIFICATE OF HIGH SCHOLARSHIP

University of Washington

PUBLICATIONS



A. Clark, **S. Bonilla**, et al. 2021. Ultrasound in Medicine & Biology.

A. Clark, S. Bonilla, et al. 2020. Talk on Ultrasoud Contrast Imaging (25th, Pg. 165).

D. Suo, A. Clark, & **S. Bonilla**, 2019. Talk on Therapeutic Ultrasound (Pg. 96).

REFERENCE



MARK MOEHRING

Chief Scientific Officer/Otonexus

MIKE AVERKIOU

Professor/University of Washington

ACOUSTICS DSP

ARDUINO/C++ HTML & CSS