

TALHA ARIFF

Electrical Engineering PhD Student

CONTACT

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SKILLS

MATLAB, LabView,
Python, C (Arduino)
Video Editing
Signal Processing
Communication
Leadership
Strategic thinking
Multitasking

EDUCATION

City, University of London
2018-2022
MEng in Biomedical
Engineering

HOBBIES/ACTIVITIES

Sports: Football, Table
Tennis, Running
Public Speaking Club
History
Strategic Board Games

REFERENCES

On request

PROFILE

PhD candidate in Electrical Engineering specializing in optical sensors and aiming for impactful research. Previous experience researching and developing cutting-edge medical devices. Devises innovative solutions for complex engineering problems. Passionate about providing solutions to improve healthcare and environment, supported by a strong track record of high achievement in all fields.

EXPERIENCE

Photonics Research Intern

Jun 2022-Aug 2022

Collaborated with Sydney Water to create a high sensitivity fiber optic sensor to detect ammonia concentration in water treatment plants with the goal of reducing water wastage. Developed a robot Arduino system to automate experiments and increased speed of data collection. Automated signal processing in LabView to manage large datasets.

Biomedical Research Intern

Jul 2021-Feb 2022

Fabrication of lithium test strips as part of a minimally invasive POC device. Led brainstorming discussions on results and optimizations. In Vitro experiments. Hazardous Lab Safety. Analysis of spectroscopic data and reporting of results. (DOI:10.1039/d2ay01743a)

Team Lead – Biomedical Engineer

Nov 2021-Jun 2022

Led the prototyping of HEARiT – an innovative telemedical fetal phonocardiograph. Met tight deadlines through project management. Electronic circuitry. Coded real-time signal processing algorithms in MATLAB to characterize fetal heart sounds. Computer and mannequin-based simulations. Pitched prototype to a panel of judges.

AWARDS AND HONORS

George Daniels Scholarship | Lord Mayor of London Scholarship