

Daniel Elabd

BIOMEDICAL ENGINEERING · ELECTRONIC AND ELECTRICAL ENGINEERING

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Summary

Currently completing an MSc in Biomedical Engineering at Imperial College London. Pursuing applications of the human & biological robotics field. Electronics - bioelectronics interest.

Education

Imperial College London

MSC IN BIOMEDICAL ENGINEERING (NEUROTECHNOLOGY STREAM)

South Kensington, London

Oct. 2020 - Oct. 2021 (expected)

University College London

BENG IN ELECTRONIC AND ELECTRICAL ENGINEERING (FIRST CLASS HONOURS)

Bloomsbury, London

Sep. 2017 - Jul. 2020

- Minor in Entrepreneurship

The British School Al Rehab

A LEVELS & IGCSEs

Cairo, Egypt

Sep. 2014 - Jul 2017

- A-Levels: Physics (A*), Mathematics (A*), Information and Communication Technology (A)
- 8 IGCSEs: 6 A*'s, 1 A, 1 B including Maths and Sciences

Experience

Smart Systems Egypt

SYSTEMS DESIGNER INTERN

Cairo, Egypt

Sep. 2020

- Training in IP video surveillance system design & implemented multiple systems' design for multiple tenders
- Training in operating & managing IndigoVision's IP video surveillance VMS systems
- Implemented solution pricing for tenders

Linkwhere Ltd

ROBOTICS ENGINEER TRAINEE

Cairo, Egypt

Jul. 2019

- Training in programming robots using ROS Python programming
- Shadowing robotics engineers during robot hardware maintenance

Tuplast SAE

ELECTRICAL ENGINEER TRAINEE

Cairo, Egypt

Jul. 2018

- Shadowing electrical engineers maintaining production line machinery
- Training on control systems of production lines in the plant

Research Projects

Printed Stretchable Sensors for Physiological Monitoring

MSC RESEARCH PROJECT

Imperial College London

2020 - Present

- Using a 3D bioprinter to print stretchable sensors using custom fabricated conductive
- Designing of a stretchable multi-parameter sensing system for physiological monitoring such as temperature, ECG, EMG etc.

Electrocardiogram Waveform Acquisition

BENG FINAL YEAR PROJECT

University College London

2019 - 2020

- Circuit design for local ECG waveform recording
- PCB design and circuit miniaturisation for system

Skills

Programming Python, Java, C, Embedded C, MATLAB, G-code, \LaTeX
Artificial Intelligence Reinforcement Learning (beginner), Deep Q-Learning, PyTorch
Software Packages DipTrace (PCB design), Multisim (SPICE), Office 365

Languages

ARABIC (*native*) • ENGLISH (*fluent spoken*) • FRENCH (*basic*)

Extracurricular Activity

Egyptian Society - UCL

CO-FOUNDER, SOCIAL MEDIA MANAGER

University College London

2019 - 2020

St Mark's Coptic Orthodox Church

YOUTH LEADER

London, United Kingdom

2017 - Present

St Paul's Scouts Group

SCOUTS LEADER

Cairo, Egypt

2019 - Present

Volunteer

VOLUNTEERING IN EGYPT'S RURAL AREAS

Menya, Egypt

2016 - Present

References

Available upon request.