



Omar Elnaggar

Researcher · Educator · Engineer · Entrepreneur

10 Summerfield Street, Sheffield S11 8BS, United Kingdom

+44 (0) 73077 22224

✉ omar.elnaggar@liverpool.ac.uk



Website



LinkedIn

SUMMARY

A doctoral researcher with an avid interest in smart healthcare and machine learning, and pursuing a personal passion for teaching and learning. Aspired to a career where research and teaching meet at one sweet spot, and where I can demonstrate my growing management and entrepreneurial skills.

EDUCATION

Doctor of Philosophy in Mechanical, Materials and Aerospace Engineering 2019-2025

UNIVERSITY OF LIVERPOOL

- Dissertation: INTELLIGENT WEARABLE SENSING FOR HUMAN SLEEP POSTURE CLASSIFICATION AND TEMPORAL ANALYSES
- In collaboration with an orthopaedic consultant at Liverpool University Hospitals NHS Foundation Trust.

Master of Engineering in Mechatronic Engineering (Biomechatronics Track) 2015-2019

UNIVERSITY OF NOTTINGHAM

- Best student award - rank 1/80
- First Class with Honours
- Dissertation title: VOLITIONAL CONTROL OF UPPER LIMB PROSTHESIS FOR REHABILITATION SERVICES

International Baccalaureate Diploma 2013-2015

AL-WAKRA INDEPENDENT SECONDARY SCHOOL FOR BOYS

- Ranked among the top 2% worldwide

Qatari High School Certificate 2013-2015

AL-WAKRA INDEPENDENT SECONDARY SCHOOL FOR BOYS

- Overall mark: 97%

MEMBERSHIPS

The Higher Education Academy (Advance HE) 2023 - Present

ASSOCIATE FELLOW

Institute of Electrical and Electronics Engineers 2019 - Present

MEMBER

AWARDS AND ACHIEVEMENTS

Winner of the "Build your own business 3" Pitch Contest (aka Launch £10,000 Programme) 2021

University College London

EPSRC Funded PhD Studentship 2019

University of Liverpool Doctoral Network in AI for Future Digital Health

Japanese Government (MEXT) Postgraduate Scholarship 2019

The Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Best Engineering Student Award 2019

IEEE Electronics Packaging Society Malaysia Chapter

Best Engineering Undergraduate Final Year Project - Finalist 2019

The Institution of Engineering and Technology (UK) and The Institution of Engineering (Malaysia)

Best Student in MEng in Mechatronic Engineering (Year 3) Award 2017-2018

The University of Nottingham

Greenbulb Energy Prize for Outstanding Performance: Control Systems Design 2017-2018

The University of Nottingham and Greenbulb Energy Pte. Ltd.

Dean's Excellence Scholarship Award The University of Nottingham	2017-2018
Department Undergraduate Development Scheme The University of Nottingham	2018
Certificate of Recognition: Mechatronic Engineering Course Representative The University of Nottingham	2018
Certificate of Recognition: Mechatronic Engineering Course Representative The University of Nottingham	2019
Department Undergraduate Development Scheme The University of Nottingham	2016
Freescale Cup Intelligent Car Competition - Finalist NXP Semiconductors	2016
High Achievers Scholarship Award The University of Nottingham	2015-2016
Government Excellence Sponsorship Ministry of Education and Higher Education Qatar	2013-2015
Certificate of Excellence Al-Wakra Independent Secondary School for Boys	2014
French Language DELF A1 Proficiency Exam - Top Scorers Award The French Council (Qatar)	2014
Certificate of Excellence Al-Wakra Independent Secondary School for Boys	2013

RESEARCH FUNDING

Using ear-based wearable devices to monitor walking, mobility and other activities of daily living in subjects with balance and neurological disorders

Funding Body: [MRC Confidence in Concept \(CiC\), University of Cambridge](#)

Date Advised Funding was Secured: [Sep 2023](#)

Project Start Date: [Oct 2023](#)

Length of Project: [9 months \(ends Jun 2024\)](#)

Grant Total: [£144,342](#)

Involvement: [Wrote the grant proposal and applied under head of research group \(Primary Investigator\)](#)

Other Investigators: [Manohar Bance, Thomas Stone, Iwan Roberts and Roger Baker](#)

Studentainment - Game-based Virtual Laboratories for Engineering Higher Education

Funding Body: [University of Sheffield](#)

Date Advised Funding was Secured: [Mar 2022](#)

Project Start Date: [Sep 2022](#)

Length of Project: [1.25 years \(ends Dec 2023\)](#)

Grant Total: [£7,698](#)

Involvement: [Co-Investigator](#)

Other Investigators: [Roselina Arelhi](#)

Foot-ZZ - Clinical validation of a novel wearable sensor network for in-bed postural analysis

Funding Body: [British Orthopaedic Foot and Ankle Society](#)

Date Advised Funding was Secured: [Sep 2022](#)

Project Start Date: [Jan 2023](#)

Length of Project: [3 years \(ends Dec 2026\)](#)

Grant Total: [£15,000](#)

Involvement: [Co-Investigator](#)

Other Investigators: [Lyndon Mason and Paolo Paoletti](#)

RESEARCH PUBLICATIONS

K. D'Aout, O. Elnaggar, A. Rowlatt, C. Brockett, A. Sharp, and C. Willems, *The Ageing Human Heel Pad: Assessing Mechanical Behaviour in the Lab and in the Field*, Society for Experimental Biology (SEB) Annual Conference, 2025. [[Link to Abstract Book](#)]

A. Rowlatt, O. Elnaggar, and K. D'Aout, *Impact of ageing on the heel pad: ultrasound imaging of the macrolayer, microlayer and skin*, Footwear Science, 2025. [[Link to Paper](#)]

O. Elnaggar, A. Rowlatt, and K. D'Aout, *Reliability of Shore Hardness as a Surrogate for Heel Pad Stiffness: A Correlative Study Using Ultrasound Imaging*, Congress of International Society of Biomechanics, 2025. [[Link to Abstract](#)]

K. D'Aout, O. Elnaggar, L. Mason, A. Rowlatt, C. Willems, *Footwear choice and locomotor health throughout the life course: a critical review*, Healthcare, 2025. [[Link to Paper](#)]

O. Elnaggar, A. Hopkinson, F. Coenen, and P. Paoletti, *Sensor-enabled Sleep Posture Analysis: State-of-the-art and Opportunities of Wearable Technologies from Clinical, Sensing and Intelligent Perception Perspectives*, Biomedical Robots and Devices in Healthcare: Opportunities and Challenges for Future Applications, 2025. [[Link to Paper](#)]

O. Elnaggar, R. Arelhi, F. Coenen, A. Hopkinson, L. Mason, and P. Paoletti, *An interpretable framework for sleep posture change detection and postural inactivity segmentation using wrist kinematics*, Scientific Reports, 2023. [[Link to Paper](#)]

O. Elnaggar, F. Coenen, A. Hopkinson, L. Mason, and P. Paoletti, *Sleep Posture One-Shot Learning Framework based on Extremity Joint Kinematics: In-Silico and In-Vivo Case Studies*, Information Fusion, 2023. [[Link to Paper](#)]

O. Elnaggar, F. Coenen, A. Hopkinson, L. Mason, and P. Paoletti, *Sleep Posture Classification: From In-Silico Proof-of-concept to Validation with Wearable Sensors*, Insigneo Showcase, United Kingdom, 2022. [[Link to Poster](#)]

O. Elnaggar, F. Coenen, A. Hopkinson, and P. Paoletti, *Generalised Joint Kinematic Analysis and 3D Visualisation: A Human Wrist Case Study*, BioMedEng22 Conference, United Kingdom, 2022. [[Link to Abstract](#)]

O. Elnaggar, F. Coenen, A. Hopkinson, and P. Paoletti, *Perception of Sleeping Poses Using Extremity Limb Orientations*, BioMedEng21 Conference Proceedings, United Kingdom, 2021. [[Link to Abstract](#)]

O. Elnaggar, F. Coenen, and P. Paoletti, *In-Bed Human Pose Classification Using Sparse Inertial Signals*, 40th International Conference on Innovative Techniques and Applications of Artificial Intelligence, Springer, Cham, 2020. [[Link to Paper](#)]

O. Elnaggar, F. Coenen, and P. Paoletti, *Wearable Sensing For Non-invasive Human Pose Recognition During Sleep*, AI for Future Digital Health Workshop, SGAI 40th International Conference on Artificial Intelligence, 2020. [[Link to Video](#)]

O. Elnaggar, and R. Arelhi, *A New Unsupervised Short-Utterance based Speaker Identification Approach with Parametric t-SNE Dimensionality Reduction*, International Conference on Artificial Intelligence in Information and Communication (ICAIIIC), Japan, 2019. [[Link to Paper](#)]

O. Elnaggar, and R. Arelhi, *An Unsupervised Speaker Identification Approach: A Breakthrough 3D Visualization of High Dimensional Features*, 21st International Conference on Artificial Intelligence and Pattern Recognition (ICAIPR), Singapore, 2019. [[Link to Paper](#)]

TEACHING PUBLICATIONS

O. Elnaggar, and R. Arelhi, *A Generative AI-empowered Framework for Creating Interactive Learning Materials Without Prior Technical Expertise*, AdvanceHE Teaching and Learning Conference, United Kingdom, 2025. [[Link to Abstract](#)]

O. Elnaggar, and R. Arelhi, *Game-based Learning in Engineering Education: How can we reconcile seemingly conflicting interests of students, academics, universities and national policy makers?*, BERA (British Educational Research Association) Conference, United Kingdom, 2022. [[Link to Abstract](#)]

O. Elnaggar, and R. Arelhi, *Design and Development of Game-based Learning for Virtual Engineering Laboratories: Two Case Studies*, AdvanceHE Teaching and Learning Conference, United Kingdom, 2022. [\[Link to Abstract\]](#)

O. Elnaggar, and R. Arelhi, *Quantification of Knowledge Exchange Within Classrooms: An AI-based Approach*, 9th European Conference on Education, United Kingdom, 2021. [\[Link to Paper\]](#)

EMPLOYMENT HISTORY

The University of Liverpool

05/2024 - Present | England

Research Associate in Foot and Ankle Biomechanics

- Experienced in the acquisition of high-quality quantitative data on the foot's soft-tissue and gait biomechanics:
 - Designed experimental protocols for data collection sessions (up to 2 hours) involving human participants.
 - Developed bespoke equipment for heel pad ultrasound imaging and plantar surface strain field measurement.
 - Built subject-specific, finite-element models through the segmentation of MRI scans of the foot.
 - Employed bi-planar X-ray videography to realistically simulate subject-specific hindfoot models in Abaqus.
 - Actively recruited 340 participants (UK, India and Namibia) from all adult age groups.
 - Collected diverse data: anthropometry, soft-tissue and gait biomechanics, medical imaging, and qualitative data.
- Secured ethics approvals in the UK (universities and NHS) and internationally (governments and relevant bodies).
- Disseminated research findings in peer-reviewed publications, research seminars, and outreach talks.
- Managed and ensured the secure storage of sensitive research data and documents in a collaborative workspace.
- Mentored and co-supervised undergraduate and taught postgraduate students.

The University of Cambridge

10/2023 - 05/2024 | England

Laboratory Research Grant and Procurement Coordinator

- Managed research grants, ensuring optimal budget allocation for various research projects.
- Spearheaded the procurement process for research materials, from coordinating with vendors to order delivery.

The University of Cambridge

10/2023 - 05/2024 | England

Visiting Research Assistant (funded by NIHR Cambridge Biomedical Research Centre)

- Developed wearable sensor data processing algorithms to analyse head and whole-body movements.
- Spearheaded the recruitment of 60 healthy and unhealthy adults at an NHS state-of-the-art Gait Laboratory.
- Extensive experience with postprocessing Vicon's motion capture data using the Nexus software.
- Conducted biomechanical (inverse kinematic and dynamic) analyses using OpenSim.
- Collaborated with ENT and neurology consultants at Cambridge University Hospitals.
- Actively pursued research funding, collaborated on writing grant applications, leading to a successful MRC funding.
- Mentored and co-supervised a doctoral student working on a closely related research project.

The University of Sheffield

03/2022 - Present | England

Independent Consultant - Educational Technology

- Initiated and led the development of new instructional technologies for engineering laboratories.
- Delivered tools to support student learning experience, such as digital Game-based Learning and animations.
- Developed a streamlined framework for interactive material production, proven to boost student engagement.
- Designed appropriate criteria for automated assessment of students' work and provision of quality feedback.
- Published and presented first-authored papers at leading teaching and learning conferences.

VirLaber Ltd

08/2021 - 06/2023 | England

Founder

- Established collaborations with academics in and out of UK to help them improve their quality of teaching.
- Led the development of a number of virtual labs for Engineering and Computer Science modules.
- Won a national judged pitching contest in the UK.

Mindset Spinoff

08/2021 - 06/2023 | England

Content Creation Director (Project Initiative)

- Recruited a team of talented professionals in the field of Media Production.
- Managed the production of creative digital content on education and self-development topics.

The University of Sheffield

01/2021 - 09/2021 | England

Graduate Research Assistant

- Joined a university-wide research project on the curriculum design and delivery of engineering programmes.
- Proposed a novel pedagogical framework to stimulate student-to-student interaction and knowledge exchange.
- Employed machine learning to assess, qualitatively and quantitatively, the efficacy of pedagogical frameworks.
- Supervised a team of four interns to design and incorporate Game-based Learning in Engineering Education.
- Published and presented first-authored papers at leading teaching and learning conferences.

The University of Liverpool

09/2020 - Present | England

Graduate Teaching Assistant (2020-24) and Postdoctoral Teaching Associate (2024-)

- Taught undergraduate students across five engineering programmes:
 - BEng/MEng Mechanical Engineering.
 - BEng/MEng Aerospace Engineering.
 - BEng/MEng Mechatronics and Robotic Systems.
 - BEng/MEng Electrical and Electronic Engineering.
 - BEng/MEng Civil and Structural Engineering.
- Delivered modules in multidisciplinary areas:
 - Engineering Mathematics and Computing (ENGG295).
 - Computational Methods in Engineering (ENGG386).
 - Experimental Methods (ENGG201).
 - Signal Processing and Digital Filtering (ELEC309).
 - Digital Control and Optimisation (ELEC303).
 - Neural Networks (ELEC320).
 - Robotic Systems (ELEC230).
 - Dynamic Systems (MECH215).
- Designed and delivered in-person/virtual sessions for ENGG295 and ENGG201, boosting attendance by 15%.
- Developed and led hands-on laboratories for ENGG386 and ENGG201, resulting in a student pass rate of 95%.
- Standardised and demonstrated 40+ sessions of ENGG201 using SOPs and pre-lab briefs, with no safety incidents.
- Developed SOPs and lab briefs for 40+ delivered sessions per year for ENGG201, with no safety incidents reported.
- Assessed and provided personalised feedback for ELEC309 and ELEC303, earning acclaim in student evaluations.
- Shadowed coordinators for ELEC320 and ELEC230, answering student queries and fostering their critical thinking.
- Co-designed new MATLAB/Simulink workshop series for MECH215, resolving long-standing issues from previous years.
- Fully acquainted with standard virtual learning environments, particularly Moodle and BlackBoard.

Intel Corp

06/2017 - 09/2017 | Malaysia

Static Timing Analyst (Intern)

- Performed full chip timing execution tasks.
- Debugged several issues in the result and flow.
- Developed scripts to automate many of the computationally intensive tasks.

Motorola Solutions Inc & The University of Nottingham

06/2016 - 08/2016 | Malaysia

Control Systems Engineer (Trainee)

- Designed and produced a fully functional Anti-lock Braking System (ABS) for automobiles.
- Tested the system in various real driving scenarios.

TECHNICAL SKILLS

BIOMEDICAL IMAGING	Ultrasound Bi-planar X-ray Magnetic Resonance Imaging
HUMAN MOTION CAPTURE	Marker-based Optical MoCap (Vicon, OptiTrack, Qualisys) wearable MoCap (magneto-inertial sensors, electronic goniometers) Plantar Pressure Plates 3D Force Plates
HUMAN MOTION ANALYSIS	MoCap Data Preprocessing & Filtering Inverse Kinematic and Dynamic Analyses (OpenSim) Markerless (IMU- and Videography-based) Gait Annotation (MATLAB, Kinovea)
COMPUTATIONAL BIOMECHANICS	3D Medical Image Segmentation (3D Slicer, Avizo) Finite Element Modelling (Abaqus, Creo) Data-driven Tissue Property Characterisation Heterogeneous (Soft & Hard) Tissue Finite Element Analysis
EMBEDDED SYSTEMS	Wearable Sensors Sensor Fusion Algorithms Digital Signal Processing PCB Design
ARTIFICIAL INTELLIGENCE	Data Augmentation Data Visualisation Deep Learning Natural Language Processing
PROGRAMMING	C/C++/C# MATLAB & SIMULINK Mathematica Python TensorFlow & PyTorch HTML & CSS
SOFTWARE DEVELOPMENT	GitHub UI/UX Design Sequential/Parallel Processing Web Development
COMPUTER SKILLS	Windows & Unix OS 2D/3D CAD Game Development (3D modelling & animation)
AUTOMATION & MANUFACTURING	Programmable Logic Controllers Subtractive & Additive Manufacturing Processes
LEARNING & MANAGEMENT	Moodle Blackboard & Blackboard Ultra Canvas
PRESENTATION & PUBLISHING	Microsoft Office Suite Adobe Creative Cloud Multi-device Recording and Streaming (OBS) LaTeX & Overleaf Self-developed Bespoke Software

HIGHLIGHTED PROJECTS

Effect of Ageing and Footwear on Heel Fat Pad Morphology and Biomechanics

2024 - 2025

UNIVERSITY OF LIVERPOOL

- Acquired a large-sized, high-quality quantitative data on foot soft-tissue properties and gait biomechanics.
- Recruited 340 participants across all adult age groups in the UK, India, and Namibia.
- Developed bespoke equipment for heel pad ultrasound imaging and plantar strain measurement.
- Collected multimodal data, including anthropometry, gait biomechanics, biomedical imaging, and interviews.
- Secured ethics approvals from UK universities, NHS, foreign governments and relevant regulatory bodies.

Ear-based Wearable Device for Clinical Gait Assessment

2023 - 2024

UNIVERSITY OF CAMBRIDGE AND ADDENBROOKE'S HOSPITAL

- Collaborated with clinicians to define research scope based on clinically relevant whole-body gait measures.
- Conducted a MoCap study with 60 participants using optical and wearable systems in an NHS MoCap laboratory.
- Developed algorithms to extract clinically relevant gait metrics from a single ear-mounted IMU sensor.
- Validated ear-derived gait metrics against the gold-standard optical MoCap-based whole-body gait measures.

Handmade Smart Socks for Activity Recognition

2022 - 2022

UNIVERSITY OF LIVERPOOL

- Designed washable pressure-sensitive smart socks purely made of electronically active yarns (e-textile).
- Developed the socks using low-cost processes, such as handmade crochet and knitting.
- Designed and fabricated a small-sized wearable embedded system for sensor data acquisition and transmission.
- Developed an algorithm for step detection and basic activity recognition.

Design and Evaluation of Knowledge Exchange in Undergraduate Classrooms

2020 - 2021

UNIVERSITY OF SHEFFIELD & UNIVERSITY OF LIVERPOOL

- Designed a framework for a group assignment for an engineering module, cultivating knowledge exchange.
- Produced AI-based visualisations of students' knowledge before and after taking the group coursework.
- Recommended evidence-based approaches to foster knowledge exchange in classrooms.

Wearable Sensing for Non-invasive Human Pose Classification During Sleep

2019 - Present

UNIVERSITY OF LIVERPOOL

- Formulated the clinical problem in collaboration with an orthopaedic consultant at Aintree University Hospital.
- Conducted virtual sleep experiments leveraging on digital 3D animation software.
- Proposed novel algorithms for human body pose tracking during sleep.
- Developed custom-made wearable sensors for in-bed human motion analysis.
- Recruited human participants in trials for validating the devised algorithms.

Volitional Control of Upper Limb Prosthesis for Rehabilitation Services

2018 - 2019

UNIVERSITY OF NOTTINGHAM

- Developed a musculoskeletal model of the human upper limb and simulated it under dynamic movements.
- Additively manufactured a controllable biomimetic prosthetic limb.
- Applied machine learning for the decoding of non-invasive EMG signals to recognise prosthetic movements.
- Implemented a closed-loop feedback control system to regulate the prosthetic movements.

Speaker Recognition Using Short Incoherent Speech for Health Emergencies

2017 - 2018

UNIVERSITY OF NOTTINGHAM

- Proposed a novel short-utterance speaker identification algorithm using parametric dimensionality reduction.
- Published two papers as first author during the third year of the MEng degree.

LANGUAGES

Arabic

Native Proficiency

English

Full Working Proficiency

French

Basic

INVITED TALKS

Research Seminar: Changes in gait and heel pad soft-tissue biomechanics with ageing

02/2025

Evolutionary Morphology and Biomechanics group @ University of Liverpool

- Presented a background on the interplay between heel fat pad, ageing and footwear in human gait.
- Discussed the research project objectives and methodology and sparked an open discussion on technicalities.
- Showcased the measured correlations between age, and soft-tissue and gait biomechanical parameters.

Guest Lecture: Walking on ageing feet and biomechanical impact of footwear

10/2024

The University of the Third Age (U3A) in Liverpool

- Presented to an elderly audience on how ageing affects foot morphology, biomechanics and mobility.
- Communicated the latest scientific findings on barefoot walking and footwear types.
- Raised awareness about the appropriate footwear choices for maintaining mobility and foot health over life course.
- Succeeded in attracting the interest of over twelve elderly participants to take part in my on-going research.

Guest Lecture: Vivobarefoot Research Conference

10/2024

Vivobarefoot Ltd

- Presented research on the effect of footwear on foot biomechanics to top executives and fellow scholars.
- Showcased the preliminary results from ongoing overseas fieldwork and UK laboratory-based trials.
- Wrapped research in a business context to demonstrate value for business development and customer relations.
- Succeeded in attracting the interest of almost all attendees to take part in my on-going research.

Guest Lecture: Sensors and Perception in Robotics

02/2022-25

University of Sheffield

- Presented the different types of robot sensors: proprioceptive, exteroceptive, passive and active sensors.
- Presented common actuator options in robotics: electrical, pneumatic, hydraulic and soft actuators.
- Discussed uncertainty of sensor measurements, sensor fusion techniques, and Bayesian decision making.
- Provided students with an overview of the legal and ethical implications of robotics.

Guest Speaker: Engineering Employability Week

03/2021

University of Liverpool

- Shared my experience as a PhD student and presented post-PhD career pathways.

Guest Lecture: Stochastic Processes

12/2020

University of Sheffield

- Lectured a class of 120 undergraduate students on the probability theory behind stochastic processes.

Guest Speaker: Final Year Project Sharing

11/2018

University of Nottingham

- Gave an eye-opening talk to undergraduate engineering students on the applications of AI in signal processing.
- Shared tips on how to ace the final year project.

PROFESSIONAL DEVELOPMENT AND ENGAGEMENT

Manuscript Reviewer

2023-present

(J1) JOURNAL OF NEUROENGINEERING AND REHABILITATION

(J2) SCIENTIFIC REPORTS

(J3) NATURE AND SCIENCE OF SLEEP

- Assess scientific rigour and relevance of manuscripts within expertise, and provide recommendation and feedback.

Elsevier Advisory Panel Member

2023-present

ELSEVIER PUBLISHING COMPANY LTD

- Provided feedback and suggestions for improvement of Elsevier's products & services.
- Conducted testing of and assessed Elsevier's newest tools and products against the needs of peer researchers.

Academics Across The Globe Initiative

2020-2023

UNIVERSITY OF LIVERPOOL & UNIVERSITY OF NOTTINGHAM

- Founded an online LinkedIn group which brings together academics and early-career researchers.
- Co-administer the group to assist members in navigating their career pathways, and forming collaborations.

Specialised Virtual Engineering Labs

2020-2023

UNIVERSITY COLLEGE LONDON, UNIVERSITY OF SHEFFIELD & UNIVERSITY OF LIVERPOOL

- Took the initiative to address the lack of well-established digital platforms for engineering practicals.
- Formed a team of developers with expertise in immersive digital environments.
- Capitalised on game development and gamification to create virtual labs for a better learning experience.
- Received positive feedback from academics at The University of Nottingham and The University of Sheffield.

Entrepreneurship Course: Build your own business 3

07/2021 - 08/2021

UNIVERSITY COLLEGE LONDON

- Won a pitch contest alongside other London students and graduates.
- Realised the process of launching a business through interactive workshops and one-to-one mentoring support.
- Grasped the different aspects of Intellectual Property, legal matters and startup financing.

Entrepreneurship Course: Build your own business 2

05/2021 - 06/2021

UNIVERSITY COLLEGE LONDON

- Recognised the tools needed to test the viability of a business idea and develop a business plan.
- Learnt the principles of identifying potential markets and target customer segments.

Online Course: System Identification and Parameter Estimation

2018

DELFT UNIVERSITY OF TECHNOLOGY

Online Course: Bio Mechatronics

2018

DELFT UNIVERSITY OF TECHNOLOGY

Intern Training Course Package

2017

INTEL

- Privacy Essentials.
- Data Leaks Avoidance.
- Information Security Awareness.
- Export Compliance Written Assurance.

Online Course: Introduction to C++ (via edX)

2016

MICROSOFT CORPORATION

Day Workshop: CS4 Qatar for Robotics

2015

CARNEGIE MELLON UNIVERSITY

Workshop Series: Debate Course

2014

GEORGETOWN UNIVERSITY

COMMUNITY OUTREACH

Patient and Public Involvement Sessions: "Ageing Heel Fat Pad" Research Project

02/2025

INSTITUTE OF LIFE COURSE AND MEDICAL SCIENCES, UNIVERSITY OF LIVERPOOL

- Organised interactive sessions to integrate participant perspectives into research design.
- Engaged with diverse (non-)academic stakeholders to ensure the research addressed real-world needs.

Project Intern: University-wide Green Initiative

04/2021-10/2021

UNIVERSITY OF LIVERPOOL

- Designed, built and installed vertical hydroponic systems around the campus to push the sustainability agenda.

First Aid Training

2015

QATAR CENTRE FOR VOLUNTARY ACTIVITIES

Organising Committee Member for the Following Events:

ROBOTICS SOCIETY, THE UNIVERSITY OF NOTTINGHAM

- Arduino workshops for undergraduate students, 2015

THE YOUTH COMPANY, QATAR

- "Run the World" Festival, 2014

MINISTRY OF CULTURE AND SPORTS, QATAR

- Qatar's Sports Day, 2014

AL-WAKRA INDEPENDENT SECONDARY SCHOOL FOR BOYS, QATAR

- UK Universities Exhibition, 2014

QATAR CENTRE FOR VOLUNTARY ACTIVITIES

- Volunteer's International Day, 2014

Participant in the Following Activities:

INTEL

- Intel Cycling Ride (Silver Medal), 2017

THE UNIVERSITY OF NOTTINGHAM

- Life Cycle Malaysia 3 (20-Km Charity Ride), 2016

QATAR FOUNDATION & THE THIMUN FOUNDATION

- Model United Nations (THIMUN), *2015*
- AL-WAKRA INDEPENDENT SECONDARY SCHOOL FOR BOYS, QATAR
- School's Scout Team (camping, desert greening, etc.), *2013-2015*
- QATAR KARATE FEDERATION
- Qatar's Karate Cup (Silver Medal), *2013*

REFERENCES

Dr Roselina Arelhi

University Teacher and PGT Programme Lead

School of Electrical and Electronic Engineering
Faculty of Engineering
The University of Sheffield
Mappin Street
Sheffield S1 3JD
United Kingdom
Telephone: +44 (0) 114 2225136
E-mail: R.Arelhi@sheffield.ac.uk

Dr Paolo Paoletti

Senior Lecturer

Department of Mechanical, Materials and Aerospace Engineering
School of Engineering
The University of Liverpool
Brownlow Hill
Liverpool L69 3GH
United Kingdom
Telephone: +44 (0) 151 7945232
E-mail: P.Paoletti@liverpool.ac.uk

Dr Andrew Hopkinson

Senior Consultant and Honorary Academic

School of Psychology
The University of Liverpool
Brownlow Hill
Liverpool L69 7ZA
United Kingdom
Telephone: +44 (0) 7503150903
E-mail: andrew.hopkinson46@gmail.com