

Ghena Hammour

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Nationality: Lebanese

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EDUCATION

2017-2018	Imperial College London Graduated with Distinction MSc in Biomedical Engineering Neurotechnology track Courses taken: Hearing and Speech Processing, Machine Learning and Neural Computation, Medical Device Certification, Brain Machine Interface, Computational Neuroscience, Biomedical Imaging	London
2014-2017	American University of Beirut (Ranked 1st in Arab Region) Graduated with distinction (top 10% of cohort) Bachelor in Electrical and Computer Engineering Minor in Biomedical Engineering-Medical Devices Minor in Mathematics Advanced courses taken: Biomedical Signals and Image Processing, System Analysis and Design Signals and Systems, Control Systems, Human Physiology, Cryptography	Lebanon
2011-2013	Arab International University Completed six semesters in Marketing and Finance	Syria
1997-2008	Pakistan International School of Damascus Syrian Baccalaureate: Official in 2009 Completed 5 GCSEs	Syria

PUBLICATIONS

- [1] G. Hammour, M. Yarici, W. von Rosenberg and D. P. Mandic, "Hearables: Feasibility and Validation of In-Ear Electrocardiogram", Proceedings of the 41st IEEE Engineering in Medicine and Biology Society conference (EMBC'19), Berlin 23-27 July, 2019
- [2] M. Yarici, G. Hammour, T. Adjei, I. Williams, and D. P. Mandic, "Human stress assessment in real life from Hearables", Journal Paper (in preparation), 2019

WORK EXPERIENCE

From 12/2018 - present	American University of Beirut Position: Coordinator and Research Assistant <ul style="list-style-type: none">Coordinating the Humanitarian Engineering Initiative, which is a collaborative initiative between the Faculty of Health Science, the Maroun Semaan Faculty of Engineering and Architecture at AUB, in collaboration with the Departments of Biomedical Engineering and International Health at Boston University and the Center for Bioengineering Innovation & Design (CBID) at Johns Hopkins University.My main duties include:<ul style="list-style-type: none">Develop and deliver technical training material and workshops for studentsWrite abstracts, research papers and proposalsCoordinate the initiative internally and with partnersOrganizing the course on Humanitarian Engineering	Lebanon
From 01/2016 - present	www.notesandmore.org Position: Founder, developer and manager <ul style="list-style-type: none">Developed a free educational website that encompasses course booklets I prepared from notes taken in class along with summaries from different references	Lebanon
From 05/2017-07/2017	Innovative Medical Solutions- Internship Position: Research Assistant <ul style="list-style-type: none">Took part in researching the feasibility of building a factory that produces blood bags, and designed the lighting plans	Lebanon

From 06/2011-08/2011

IT'S SUMMER, Summer Camp

Syria

Position: Founder and Manager

- Started a summer camp for children of ages 3-13
- Developed weekly themed schedules that encompasses activities to suit the different age groups

AWARDS

2015-2017

Dean's Honor list

Lebanon

Awarding Body: American University of Beirut

Placed on the Dean's honor list for three semesters

VOLUNTEER WORK

2015-2015

American University of Beirut

Lebanon

Position held: Volunteer

- Assisted in the yearly graduation commencement exercises
- Developed automated schedules and on-stage seating plans for faculty members.

2014-2017

American University of Beirut- Robotics Club

Lebanon

Position held: Volunteer

- Assisted in the Engineering Design Challenges (EDC) versions 1 and 2
- Took part in developing Arduino workshops
- Helped in the hackathons

2009 -2011

ZAID Orphanage

Syria

Position held: Volunteer

- Helped in developing activities for kids (ages between 5-13)
- Assisted kids with special needs

PROJECTS ACCOMPLISHED

- Developed an ultra-wearable in-ear device to measure Electrocardiogram (ECG) activity for continuous 24/7 physiological monitoring and stress management.
Paper titled: "Hearables: Feasibility and Validation of In-Ear Electrocardiogram" was accepted at The Engineering in Medicine and Biology Conference 2019
- Designed and implemented fully maneuverable breath controlled electric wheelchair for people suffering from quadriplegia, and any person in need of a hands-free control method for their electric wheelchair. Project available on the link:
<https://www.dropbox.com/s/3haip2g2oh9maf1/LAB%20TOUR.mp4?dl=0>

SUMMARY SKILLS

COMPUTER SKILLS:

- Microsoft Office (MS Word, Excel, Powerpoint)
- C++, Pspice, LabView, Matlab
- Programming Arduino Microcontroller
- DIALux

LANGUAGES:

- English (fluent)
- Arabic (Native language)
- French (Basic knowledge)

SOFT SKILLS:

- Leadership, Communication, Team-Building, Organizational, Management, and Public Speaking

TECHNICAL SKILLS:

- Algorithm Development, Problem Solving, Circuit Testing, Building and Prototyping, Data Analysis, and Signal Processing

References

- Available upon request