LEEN DAHER

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EDUCATION

University of Beirut, Beirut, Lebanon *September 2018 - Present*
Bachelor of Engineering in Electrical and Computer Engineering (GPA:3.8/4)
Deans Honor List for 5 semesters
Minor is Applied Mathematics

Al-Qualaa Secondary School, Saida, Lebanon *September 2003 - June 2018*
Lebanese Baccalaureate in General Sciences

SKILLS

Languages:	English fluent, Arabic (Native)
Programming:	C++, Python, VHDL
Software & Tools:	MATLAB, Visual Studio, LaTeX, LabVIEW

RESEARCH EXPERIENCE

American University of Beirut *January 2021 - Present*
Research Assistant

- Designed an adaptive controller for a biomedical engineering project that entails a tele-operated test rig that provides haptic feedback to surgeons/doctors performing procedures/biopsies under live MRI conditions.
- Utilized Simulink to model and simulate the designed controller.
- Currently working on implementing and testing the controller on the test rig.

Publications

- Daher, L. and Daher, N. (2021). "Input-Output Stability Based Model Reference Adaptive Control of a Passive Pneumatic Teleoperation System." 2021 IEEE International Multidisciplinary Conference on Engineering Technology (IMCET), Beirut, Lebanon.

Presentations
Presenter
- "Input-Output Stability Based Model Reference Adaptive Control of a Passive Pneumatic Teleoperation System." 2021 IEEE International Multidisciplinary Conference on Engineering Technology (IMCET), Beirut, Lebanon.

RELEVANT COURSEWORK

- Modeled, controlled and simulated Quanser's 3-Dof Hover with MATLAB and Simulink (System Analysis and Design course).
- Designed an 8-Bit Arithmetic and Logic Unit with VHDL (Digital Systems Design course).
- Designed and simulated a traffic light controller with VHDL (Digital Systems Design course).
- Utilized Python text recognition and extraction from images and wrting them into txt files (Artificial Intelligence in Control Systems course).

EXTRACURRICULAR

Beirut's AI Agri Hackathon *January 2021 - January 2021*
Participant
- Worked with a team on developing a solution for product mismanagement.
Tutor *July 2021 - Present*
- Tutored students high-school level and University level Mathematics courses.
Member AUB Coed Centennial Project *Octoberr 2021 - Present*
- Organized events and is part of the organization and promotion sub-committee.
Member of the Lebanese Aerospace and Automotive Society *September 2021 - Present*
Public Relations