

## Hussein Takach

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### OBJECTIVE

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An Electrical and Computer Engineering enthusiast, I am a highly driven individual seeking to build my knowledge, sharpen my skills and explore my career options. I am a hard-working student and social activist, recognized for my commitment, problem-solving skills, and critical thinking. My good grades reflect my hard work and aptitude to deliver good results under pressure. Aside from seeking academic excellence, I believe my entrepreneurial spirit will help me build a strong career to grow my potential and give back to my community.

### EDUCATION

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<b>09/2019 - 05/2023 (expected)</b>	<b>American University of Beirut</b> Bachelor in Electrical and Computer Engineering; GPA: 4.09 Focus Area: Hardware; Minor in Bioengineering Design; Courses in electronics (power electronics), electromagnetics, control, hardware (Computer Architecture, Parallel programming), software (Data structures), and biomedical engineering.	<i>Beirut, Lebanon</i>
<b>09/2015 - 06/2019</b>	<b>Ecole des Soeurs des Saints Coeurs- High School</b> Graduated with High Distinction.	<i>Baalbeck, Lebanon</i>

### EXPERIENCE/PROJECTS

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<b>07/2021 – Present</b>	<b>Processor Design Camp</b> <ul style="list-style-type: none"><li>Designed and implemented a basic 32-bit RISC-V processor from scratch;</li><li>Skills gained: research, design, and prototyping.</li></ul>	
<b>09/2020 - 01/2021</b>	<b>Mena Hackathon</b> Won 2 <sup>nd</sup> prize <ul style="list-style-type: none"><li>Designed, implemented and pitched an innovative smart covid-mask;</li><li>Skills gained: research, market study, public speaking, and core technical skills.</li></ul>	
<b>08/2018</b>	<b>Startup weekend Beirut</b> Won 2 <sup>nd</sup> prize <ul style="list-style-type: none"><li>Developed a startup idea, collected data and presented a feasibility study;</li><li>Skills gained: market research, public speaking, team work, and core technical skills.</li></ul>	
<b>07/2018 (2-week program)</b>	<b>AUB summer program (Summer of innovation )</b> Won 1 <sup>st</sup> prize <ul style="list-style-type: none"><li>Developed and pitched an innovative device to reduce pollution using IoT;</li><li>Skills gained: research, programming of raspberry pi, prototyping, pitching.</li></ul>	

### VOLUNTEERING AND ACTIVISM

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<b>08/2020 – 05/2021</b>	<b>Founder of Youth to Relief Lebanon</b> <i>An initiative by college students from all over Lebanon that helped rebuilding four destroyed houses in Beirut after the explosion of August 4 and recently worked on providing food packages for 450 families in need.</i> <ul style="list-style-type: none"><li>Volunteer recruitment, donation collection, budget planning, and taskforce leadership.</li></ul>	
<b>09/2018 - 09/2019</b>	<b>All Girls Code- AUB</b> <ul style="list-style-type: none"><li>Member of the technical team;</li><li>Contributed to planning events and helped empowering women in STEM.</li></ul>	
<b>2018 - 2020</b>	<b>Tutor</b> <ul style="list-style-type: none"><li>Helped school students in my hometown Baalbek to enhance their school performance and their skills through private tutoring sessions.</li></ul>	

### SKILLS

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**Languages:** Fluent in English, Arabic and French.

**Computer Skills:** MS Word, Excel, PowerPoint, HTML, C, C++, VHDL, Python, Arduino, Verilog, Assembly, MATLAB

**Soft Skills:** Leadership, Communication, Team Building, Organization, Public Speaking, Decision Making, Working under Pressure, Planning and Scheduling.