

Tommy El Hajjar

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EDUCATION

American University of Beirut (AUB)

Sep 21 – Present

Bachelor of Engineering (B.E.) in Mechanical Engineering (GPA of 3.32 out of 4.0)

PROFESSIONAL EXPERIENCE

C.A.T. Group – *Engineering Intern*

Jul – Aug 24

- Contributed to several technical assessments and provided recommendations while considering cost, time and quality (e.g., analysis of geotechnical reports, implementation of Aramco standards)
- Reviewed technical drawings, calculated bill of quantities and estimated budgetary requirements
- Introduced innovative ways of working (e.g., MATLAB), resulting in improved efficiency and better user interface

AUB Faculty of Engineering – *Researcher*

Sep 22 – Jun 24

- Conducted research on new topics and converted findings into practical applications (e.g., energy efficient robots)
- Integrated gears into the robot's structure, leading to a 20% increase in efficiency
- Optimized power consumption in robot applications, resulting in 30% reduction in power usage

T. Gargour & Fils (Mercedes Benz dealership) – *Intern*

Jul – Aug 23

- Applied theoretical knowledge of automotive systems into practice (e.g., disassembly of engines, HVAC)

SAMPLE PROJECTS

Product Design, EMT Equipment Washer

Jan – Apr 24

- Built a mechanical brush mechanism for effective removal of residues
- Designed and implemented a waste management system for efficient disposal of used cleaning agents
- Installed a control system with a digital LED display to achieve a user-friendly interaction

Study on Air Conditioning Facilities Optimization (AUB SSEA)

Sep – Nov 22

- Conducted a study focusing on optimizing air conditioning facilities through the implementation of a Building Management System; estimated savings amounted to USD ~100,000

EXTRACURRICULAR ACTIVITIES

AUB Robotics Club – *Vice President*

Aug 24 – Present

- Led trainings and workshops on several complex topics (e.g., electronics, Arduino)
- Organized hackathons for 100+ students (e.g., Buildit Weekend Hackathon)
- Owned relationship with external vendors and negotiated agreements

Model of United Nations (MUN) – *Country Representative*

Feb – May 20

- Conducted research on critical topics (e.g., dark web, deep fakes, sustainability), synthesized information and engaged in public debates with other countries' representatives
- Was awarded the "Position Paper", an award given to delegates who demonstrate exceptional qualities in research, analysis and diplomacy

The Council Leadership Academy – *Leadership Graduate*

Jan – May 18

- Completed a leadership program focused on developing participants' public speaking skills, negotiations, and decision making

Scouts du Liban (SDL) – *Member*

16 – Present

- Led several community service initiatives (e.g., cleaning campaigns of public spaces; fundraising events for under-served population)

INTERESTS

- Languages: Arabic (native), English (fluent), and French (fluent)
- Computer skills: AutoCAD, Creo 3D, SolidWorks, Microsoft Suite, MATLAB, Lego Mindstorms, Arduino IDE and Python
- Hobbies: Tennis, Swimming, Playing Piano