FADI MATAR

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Education

2022-2025 **Bachelor of Science in Mechanical Engineering/ Politecnico di Torino University**

Thesis Topic: CAD Modeling and CFD study of a Fluid Controls cartridge pressure relief: CAD modeling, by means of Solid works, of a Fluid Controls cartridge pressure relief valve for fluid power applications, and to the study of its working principle also by means of CFD simulations.

2025-PRESENT **Bachelor in Computer Science/ Lebanese University-Faculty of Science**

2018-PRESENT **Mechanical Engineering/ Lebanese University-Faculty of Engineering**

Skills

- Languages: Arabic (Native), English-B2, Italian- A1(Beginner)
- Software: AutoCAD, Solid Works, Autodesk Inventor, Revit, Catia V5, Siemens Nx, Fusion 360, QForm, MATLAB, Microsoft project, Photoshop
- Programing Languages: Python, C++, CNC Programming, Arduino Programming
- Working Knowledge in Microsoft Access, Word, Excel, and Power Point

Projects

Fall ,2024 **Study of Industrial Plant Project**
Explain and justify the decisions that were made in planning the various aspects of this production plant

SPRING,2023 **Closed Die Forging Project**
Design and simulate a closed-die forging process for a particular case study

SPRING,2022 **Car Scissor Jack Project**
Modeling the components of a car scissor jack and assembling them in SolidWorks

SPRING,2022 **Air Reservoir Manufacturing Project**
Design and manufacture an air reservoir (pressure vessel) that effectively holds compressed air, minimizes pressure fluctuations, and operates efficiently

FALL,2021 **Four Bar Pin-Jointed Mechanism Project**
Using MATLAB to perform a complete kinematic analysis of a four-bar pin-jointed linkage mechanism with respect to position, velocity, and acceleration analysis.

FALL ,2024 **Study of Industrial Plant Project**
Explain and justify the decisions that were made in planning the various aspects of this production plant

SPRING,2023 **Closed Die Forging Project**
Design and simulate a closed-die forging process for a particular case study

Activities

- Member in Cyber Security Club

Experiences

- Internship at MOST Trading Group
- Hands-on experience with turning, milling, and drilling machines for manufacturing processes.