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Mohamad Yehya Hariri

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Education

Rafik Hariri University Mechref, Lebanon
Engineering, Mechatronics. Spring 2025
Relevant Coursework: CAD/CAM/CAE, Mechanical Design, Electronics, Microcontrollers, ROS2, PLC, Sensors and Actuators.

Hariri III Highschool Beirut, Lebanon
Summer 2021

Experience

Sim Haze Racing Lebanon

Assembly Engineer Jully 2024 – February 2025

- Designed 3D printed parts to retrofit different simulator parts together.
- Designed and implemented a 3DOF motion system simulator.
- Assembled a Formula 1 Simulator by interfacing a real car pedal with the simulation software using a microcontroller
- High-End simulators assembly.

Rasamy Younes Motor Company Beirut, Lebanon
Mechanical Engineer Intern June 2024

- Worked on the mechanical and electrical part of GMC and Nissan cars.
- Enriched my knowledge related to mechanical design and the manufacturing industry.
- Got a new perspective on different ways one might attack a problem.

Leadership & Activities

Sim Haze Racing Lebanon
Coordinator Jully 2024 – February 2025

- Organ0ized the Lebanese Digital Motorsports Championship in collaboration with the Automobile et Touring Club du Liban (ATCL)
- Worked on the opening of the Rally of Lebanon 2024 with Coral S.A.L

Projects

- Developed a MATLAB simulation of a 4-bar mechanism with animation using SolidWorks.
- Developed a MATLAB simulation of a six-cylinder petrol engine, the simulation shows all the performance parameters of the engine.
- Designed a Line follower Fire Fighting rover, using Arduino to program the robot.
- Designed a robot that shoots water on 4 targets in which we had to measure the distance and angle of each target without any sensor.
- Created a sunlight tracking robot that uses a PID controller as its main algorithm.
- Designed an autonomous coffee machine shaped like a small block V8 engine using SolidWorks.
- Designed an autonomous interactive study desk with three degrees of freedom on SolidWorks.
- Interfaced a posture detection model with sensors and actuators that control the autonomous interactive study desk using Raspberry Pi and ESP32.
- Interfaced racing simulator parts with remote controlled cars equipped with FOV dynamic cameras.

Skills & Interests

Technical: SolidWorks, AutoCAD, Fusion 360, Ansys, CARLA simulator, Excel, Open cv, Python, C++, MATLAB, Arduino, LabView, esp32, Microcap, Proteus, Control System Design, PID, Research skills, Troubleshooting skills
Language: English, French and Arabic / Proficient in writing and speaking the mentioned languages
Laboratory: Soldering, Welding