

Ragheed Huneineh



Date of Birth: 15. April. 1995

Nationality: Lebanese

Marital Status: Single



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Highlights:

- ✓ Excellent leadership skills of teams designated by setting the project goals.
- ✓ High degree of personal responsibility, assertiveness, and goal-oriented action.
- ✓ Sound knowledge in engineering, design, and validation analyses.
- ✓ Excellent knowledge in approaching engineering, management, and optimization problems.
- ✓ High degree of learning rate in terms of software experience.



RESUME

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EDUCATION:

Politecnico di Torino

Master's Automotive Engineering – Propulsion Systems – 100/110

01.10.2018 – 16.07.2021

Politecnico di Torino

Bachelor's Automotive Engineering – 101/110

01.10.2015 – 16.10.2018

Beirut Arab University

Bachelor's Mechanical Engineering

15.09.2013 – 15.06.2015

Rafik Hariri High School

Baccalaureate 2 / Lebanese Official Exams (2013)

2012 – 2013

PROJECTS:

● **E-Drive Functional Testing (Dana Graziano)**

Validation and verification of a complete e-drive system internally developed by Dana for an external client. During this role, I was able to execute the development and validation plan developed by system requirement engineer and project lead. This covered tests on mechanical components of the system as well as system level testing. Moreover, I gained enough experience in the first phase of the project to develop the end-of-line test procedure for the second phase. The implementation of this test takes advantage of various platforms as LabVIEW for communication, CANape for calibration and measurement recording, as well a platform I developed via Python to automate the compilation of an excel certificate representative of each unit.

● **Global Engine Durability on Cylinder Head and Block Related to The Physical Test Duration (Thesis)**

Developed in cooperation with **General Motors** at **Punch Torino** site, this project targets the main issues with simulating the loading history using FEMs of engine blocks and heads to estimate their corresponding life based on previously developed FE fatigue algorithms. A scaling methodology is proposed to limit the complexity of the analysis and a Python script is developed to shift the working load away from the analyst.

● **Use of a Fractal Model for Combustion Prediction in a SI Engine Running on HCNG: Speed and Load Effect**

The study is derived from a greater project that started in 2010 by the Department of Energy in Polytechnic of Turin and aims at comprehending the combustion process of CNG. To achieve our aim, the combustion and turbulence models of a SI engine running on CNG have been previously compiled with FORTRAN and implemented into GT-Suite.

● **Vehicle Longitudinal Dynamics, Acceleration Performance, and Fuel Consumption**

A university project aiming for the development of a vehicle longitudinal dynamics model to test the acceleration performance and fuel consumption through the NEDC cycle. To achieve that aim, an engine map has been supplied and the complete development has been done on MATLAB.

● **Lateral Dynamics of a Rigid Vehicle Mode**

The lateral dynamics model of the same vehicle modeled earlier for longitudinal dynamics has been developed also considering the behavior of the tires studied in an earlier project on MATLAB.

● **Kinematic Behavior of a Vehicle Front Suspension**

Given the hardpoints of a double wishbone suspension, the modeling on AdamsCar has been achieved. The results have been imported to MATLAB and were used for calculation necessary to achieve the kinematic behavior of the suspension.

● **Analysis of Ideal and Actual Braking**

The ideal braking model has been developed on MATLAB and studied. In addition, the actual braking model has been developed and compared to the ideal.

● **Dual-Clutch Transmission Output Shafts Design**

Given the worst working condition of an engine, a complete Dual-Clutch Transmission was requested to be developed where my team was responsible for the output shafts design. A MATLAB Live Script was developed to ensure a proper design of the output shafts satisfying static and fatigue failure mechanisms.

- **Engine Testing Evaluation and HRR Analysis**

Numerical results of corrected power and torque, fuel conversion efficiency, brake specific fuel consumption, and volumetric efficiency related to steady-state tests have been calculated on MATLAB.

- **JUNO Suspension and Steering System**

JUNO is a vehicle developed by H2politO team at Politecnico di Torino. The suspension and steering systems have been developed from scratch using AdamsCar and tested in real life.

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PRACTICAL EXPERIENCE:

- 2010 – Present Lebanon - Italy
Private Tutor (Self-Employed)
 - General Sciences – Computer Science – Applied Mechanics
- Oct' 2018 – Apr' 2019 Turin, Italy
H2politO (Vehicle Dynamics and Strategy Member)
 - JUNO Suspension & Steering System Development – IDRACKRONOS Steering System Study
- Jan 2021 – June 2021 Turin, Italy
General Motors | Punch Torino
 - CAE Intern: Global Engine Durability Analysis (Thesis)
- Feb 2021 – Jan 2022 Milan, Italy
AEHERA AUTOMOBILI S.R.L.
 - CFD Analyst – Aerodynamicist under Filippo Perini's supervision
- Feb 2022 – March 2022 Milan, Italy
Alten
 - Software Testing Intern: ZF Gearbox Software Testing
- March 2022 – Present Turin, Italy
Alten – Dana Graziano
 - Junior Test Engineer: Gearbox Functional Testing
- Feb 2023 – Dec 2024 Turin, Italy
Dana Graziano
 - Validation & Verification Testing Engineer: E-Drive Functional Testing
 - Software Testing & Control
- June 2025 – Present Aachen, Germany
Atesteo GmbH & Co. KG
 - Engineering Project Manager

LINGUISTIC PROFICIENCY:

- **Arabic** – Mother Tongue
- **English** – Professional Working Proficiency
- **Italian** – Professional Working Proficiency
- **German** – A2/Limited Working Proficiency

TECHNICAL SKILLS:

- Good handling of **Windows, MacOS** and **LINUX** operating systems.
- Excellent knowledge and experience in programming languages like **C, MATLAB, Python, JAVA, LabVIEW, VBA for Excel, and Go**.
- Highly skilled with programs like **FE-Safe, Abaqus, Solidworks, NX Siemens, Altair Hyperworks, SIMULINK, Star CCM+, GT-Suite, Ansys, and CANape**.
- Proficient user in **information processing, communication, content creation, safety, and problem-solving**.

GENERAL ABILITIES:

- Independent and responsible.
- Multi-tasking (able to work on different projects in parallel).
- Assertiveness and professional appearance with a positive charisma.
- Proactive solution-oriented approach to problems, as well as trained analytical thinking skills with a positive “can do” attitude.
- Passionate and fast learner.

HOBBIES:

Reading, running, swimming, cycling, playing the piano.

REFERENCES:

Available upon request.