

Personal Statement

My name is **Mahmoud Hamed**, I'm a Civil Engineer and I'm enrolled in **Geomechanics, Civil Engineering and Risks master program (M2) in Universite` de Grenoble Alpes (UGA)**, passed first year **Pre-Master** in Soil Mechanics and Geotechnical Engineering in Helwan University in Egypt, **Bachelor of Science** from Helwan University (Top 10 in Egypt) with accumulative grade **Very Good**, and my graduation project was **Concrete & Structural engineering with grade Excellent**. I have got 4 years of **work experience** inside and outside Egypt related to Geomechanics and Management. My main major in Civil Engineering according to my education, work experience and internships is **Geotechnical and Structural Engineering, construction** (site engineer) and **project management** (Planning Engineering, Risk Management, Supply Chain Management, Cost Impact Studies and Cost Control).

Overall, I always believe that for proper knowledge of anything in life I must combine between **Practical** and **theoretical** sides. So, it was not easy to find a research program combines between all of them, but I found this project is suitable because of Lab. tests as a practical side, with my knowledge about Reinforced Concrete Design as a Theoretical side and finally by using theories of Structural analysis and Geomechanics to find conclusions and solutions. Besides that, this research program is related to **Concrete studies** sector which will open a lot of topics and thoughts after that.

On one hand, I have a good experience either in **research** and **practical** (Professional) which may qualify me to this research project.

I had acquired both professional experience and communication skills in how to solve any problem which may face me. I used to make design of Structures and Foundation, transforming architectural drawings into Structural drawings, find a suitable statical system and choosing the type of foundations suitable for carrying the load. It's a very good thing that you know theories and then apply it.

On the other hand, my **future plan** is a **Phd** in Renewable Energy sector applications in Concrete mechanics, Geotechnical Engineering, Dynamics of Structures, Durability and vulnerability of structures and also Energy Thermo-Mechanical, behavior of energy piles in soil, energy tunnels and energy walls (**Energy geostructures**).

In conclusion, I hope all my research and practical experience meet with your requirements fear **"The ship is safe on beach, but it's not made for that For Paulo Coelho "**. It's a challenging opportunity so my technical & Communication Skills would be employed and further enhanced.