HADI KAWSSARANI

Beirut, Lebanon

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PROFESSIONAL SUMMARY

As a former intern in Cyprus, I have honed my skills in strategic problem-solving and innovative thinking. My diverse background enables me to tackle challenges from unique perspectives, ensuring effective and efficient solutions. I am actively seeking a consultant role to leverage these strengths and drive client success through impactful projects.

PROFESSIONAL EXPERIENCE

The Cyprus Institute / EPOS - IASIS Company   *Nicosia, Cyprus*

Intern – Reserach Engineer   *April 2024 – Sep 2024*

- Conducted detailed market and technical research to evaluate industry trends and emerging technologies, providing actionable insights to support both R&D and strategic business decisions.
- Applied statistical analysis techniques and data visualization tools (such as Python, Excel, and SQL) to uncover patterns in data, informing product development and market entry strategies.
- Analyzed large datasets and synthesized information from diverse sources, including experimental results, reports, and databases, to assess product viability.
- Prepared and delivered comprehensive reports and presentations to senior management, clearly communicating complex data-driven insights and recommendations.

SADAPACK Industries S.A.L   Beirut, Lebanon

Intern   *Jul 2023 – Sep 2023*

- Daily testing and purification of different water samples by reverse osmosis and water filtration membrane processes
- Developed and implemented quality control procedures to ensure regulatory compliance, while optimizing manufacturing processes to enhance efficiency and reduce waste.

Ministry of Energy and Water   Beirut, Lebanon

Intern   *Jun 2023 – Jul 2023*

- *Introduced to the laboratory tests conducted on petroleum products for quality control purposes as per ASTM, IP, and ISO international standards as well as collecting and analyzing test results using laboratory equipment and software.*

EDUCATION

Lebanese University, Faculty of Engineering III

MSc in Computational Engineering   *Sep 2023 – Sep 2024*

- Proficient in data analysis and reporting, leveraging advanced Excel skills to generate actionable insights.
- Proficiency in optimization techniques and numerical methods for solving complex problems.
- Mastery of advanced algorithms and data structures with a focus on optimization, and algorithmic data analysis.

BS in Chemical and Petrochemical Engineering   *Sep 2019 – June 2024*

- **Project Management:** Experience with project planning, scheduling, and data analysis.
- **Mechanics of Materials:** Understanding stress and structural analysis, materials properties, and failure modes.
- **Advanced Thermodynamics:** In-depth study of thermodynamic principles as they apply to engineering processes.

Personal Projects

- **Multiscale Mechanical Model for the Effective Interphase of Polymer Nanocomposite**
  Discern the mechanical properties of the interphase in silica nanoparticle/polyethylene oxide nanocomposites, focusing on spatial variations within this region. By integrating molecular dynamics simulations with a multiscale finite element approach, it seeks to comprehensively understand and compare the mechanical behavior of the interphase.

SKILLS & PERSONAL

Languages: Arabic (native), English (fluent), French (proficient)

IT: Office Package (Word, Excel, PowerPoint, Access)

Programming: C, C++, MATLAB, HTML, Python

FEM Simulations: FreeFEM, Abaqus, COMSOL, Ansys