



Elio Gereige

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Languages: Lebanese Arabic (Native), English (Full Professional), French (Full Professional)

More information on: eliogereige.com

Summary

Biomedical and Mechanical Engineer and Industrial PhD Candidate in Nanomedicine with 3+ years of cross-functional R&D experience across healthcare and pharmaceuticals. Managed teams and led early-stage projects from concept to prototype, supporting product development and execution. Targeting Product Management roles on innovative, technology-driven projects.

My Top Skills

Product Development | Leadership | Professional Communication | Problem Solving | Troubleshooting | Data Analysis | Prototyping | CAD | Programming (Classical & Agentic) | Numerical Simulations.

Relevant Professional Experience

Industrial PhD Candidate, Inside Therapeutics (Inside Tx), France | Feb 2024 – Present

- Developed the open-loop flow control process of NanoPulse and assisted in the prototyping and characterization cycles.
- Built numerical simulations and mathematical models to analyze and improve NanoPulse's mixing process.
- Implemented innovative solutions, which led to 1 publication, 2 patents, and other confidential inventions.

R&D Engineer, Inside Therapeutics (Inside Tx), France | Nov 2023; Jan 2024 – Feb 2024

- Led the characterization bench project for [TAMARA](#) chips by designing, 3D printing, assembling, and testing the setup.
- Automated the data analysis of characterization bench results, improving decision speed and result reliability.

Biomedical Engineering Intern, Inside Therapeutics (Inside Tx), France | Apr 2023 – Sep 2023

- Formulated liposomes of controlled diameters using a novel micro-mixer and characterized their sizes and PDI via DLS.
- Developed autonomous image analysis algorithms using ImageJ to evaluate the micro-mixer's mathematical model.

Mechanical Engineering Intern, Pharmaline – Malia Group, Lebanon | Mar 2021 – May 2021

- Produced Standard Operating Procedures (SOPs) and Preventive Maintenance Logbooks for 11 pharmaceutical machines.
- Conducted preventive maintenance on pharmaceutical machinery in accordance with Good Manufacturing Practices (GMP).

Selected Extracurricular Experience

Vice President, IP Paris Postgraduate Alumni Association, France | Feb 2024 – Sep 2024

Built the club's early online presence, assembled a team, and established connections with other alumni associations.

President, Student Board (BDE) of Institut Polytechnique de Paris, France | Oct 2022 – Oct 2023

Led an 8-member board, raised €12k in funding, and organized large-scale events for 100+ international students.

On-Campus Events Officer, ASME LAU's Student Section, Lebanon | Jun 2020 – Jun 2021

Organized a renewable energy webinar and an e-waste management competition in collaboration with NGOs.

Education

Industrial PhD (CIFRE) in Nanomedicine, MINT Lab [Université d'Angers – UMR Inserm 1066 – CNRS 6021], France | Ongoing

Attended, presented posters at, gave talks at, and received awards from 6 international conferences and seminars.

Master's Degree (PhD Track) in Biomedical Engineering, Institut Polytechnique de Paris (École Polytechnique), France | Sep 2023

GPA: 16.63/20; **Ranked** 2nd | **Awards:** Excellence Scholarship, awarded for M1 & M2.

Bachelor of Engineering (BE) in Mechanical Engineering, Lebanese American University, Lebanon | Jul 2021

GPA: 3.86/4; **Ranked** 5th | **Awards:** High Distinction and [The Award of Excellence in Engineering](#) – given to 1 engineering student every year | **Publication:** Ghanem, C., [Gereige, E.](#), Bou Nader, W., & Mansour, C. (2021). [Stirling system optimization for series hybrid electric vehicles](#). *Proceedings of the IMechE, Part D: Journal of Automobile Engineering*.

Selected Certifications

- Product Management Basics Course, *ProductMe: Learn Product Management* (2025).
- McKinsey Forward Program, *McKinsey & Company* (2025).
- Pharmaceutical GMP Training, *AKTEHOM* (2025).
- CE Marking & International Product Certification, *CAP'TRONIC* (2024).