



Elio GEREIGE

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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.

Core Skills

Product Development | Leadership | Communication | Problem Solving | Troubleshooting | Data Analysis | Prototyping | 3D Printing | CAD (SolidWorks) | Programming (LabVIEW, MATLAB, Python, R) | Simulation (Ansys, COMSOL, Simulink).

Relevant Professional Experience

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

- Supported the design and prototyping cycles of [NanoPulse](#), contributing to characterization and iterative improvement.
- Built simulation programs and mathematical models to analyze and improve NanoPulse's mixing process.

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.

R&D 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.

R&I Biomedical Engineering Intern, Hôpital Marie-Lannelongue, France | May 2022 – Jul 2022

- Contributed to optimization of the pre-clinical Ex-Vivo Heart Perfusion (EVHP) system within an interdisciplinary project.
- Partnered with medical stakeholders to ensure engineering improvements remained aligned with clinical needs.

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).

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

Presented posters and talks and received awards at international conferences and seminars, such as CRS 2024.

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).