

Pierre-Henry FRÖHRING

Senior Software Engineer

31400 Toulouse, France

+33 7 88 17 15 73

✉ contact@phfrohring.com

🌐 www.phfrohring.com



Introduction

I am looking for a position in software engineering. With over a decade of experience in the software industry in a variety of positions — from software developer to CTO of startups — and having lived in diverse cultural settings for eight years (Greece, Lebanon, and Italy), I am thrilled to join a global company.

Work Experiences

2022–2024 **Co-Founder & CTO**, *DeepLinks* — *ALCEN Group*, Toulouse (France)

Based on previously won tenders, I co-founded a subsidiary company (*DeepLinks*) to build knowledge graphs for the industrial sector (Defense/Nuclear) using Neo4j and Machine Learning (ML). I hired a team of five and extended previously won tenders in the ~50k€ range.

2021–2022 **Senior Project Manager**, *EPSYL* — *ALCEN Group*, Toulouse (France)

In addition to software development, I secured tenders (50k€-150k€) from major entities (*CEA*, *ADEME*, *SNEF*). I hired, built, and delivered software solutions, including a project for routing electrical cables within a nuclear reactor (RJH). We used Neo4j, Python, and C for graph-based data modeling.

2018–2021 **Software Developer**, *EPSYL* — *ALCEN Group*, Toulouse (France)

Software development for industrial clients. Tasks included classifying airplane parts (*Airbus*/Skywise, ML, PySpark), parsing robotic commands and data to predict drill bit failures (*Airbus*, ML, Python, OhmJS), developing a parallel processing pipeline (*CNES*, Bash), visualizing geographic data (*CS Group*).

2012–2018

- 2014–2016: Co-founded *NotesHub*, a platform aimed at accelerating knowledge acquisition (*e.g.* spaced repetition), with Pr. Andrzej Duda at *Laboratoire d'Informatique de Grenoble (LIG)*.
- 2012–2014: Designed the *Celum* project and secured ~100k€ in funding from *Linksium*. *Celum*'s objective was identical to *NotesHub*. *Celum* later evolved into the *Domoscio* company.
- 2013–2014: While building the *Celum* project, I was a part-time software developer for the *LIG* where I built a testbench (WalT) for the STM32 using Python, C and the ZeroMQ library.

Skills

Project/team Management I spearheaded the development, funding, recruitment, and management of six software projects, each involving teams of 2-5 professionals and annual budgets of ~ 100k€ to 200k€. My role included winning tenders, founding companies, and leading project teams.

Software Development I designed and delivered software solutions, from scientific research (*LIG*) to industrial applications (*Airbus*). I have built infrastructures using Guix for reproducible results.

Programming I program in Python using Git. I can use data science libraries *e.g.* Pandas, Keras, scikit-learn, TensorFlow. I used other languages *e.g.* Erlang/Elixir, JavaScript, C, Racket, Lean, Smalltalk.

Education

2008–2012 **Master's degree**, *Ensimag*, Grenoble (France), High Honors

Informatics & Applied Mathematics. The Ensimag is a leading French educational institution.

2010–2012 **Master's degree**, *Politecnico di Torino (Polito)*, Turin (Italy), High Honors

Telecommunications & Radars. Polito is one of the top European technical universities.

Languages

French Native

Italian Limited Working Proficiency

English Full Professional Proficiency

German Learning the language