Seeking a **software or artificial intelligence** engineering R&D position in France or nearby

WORK EXPERIENCE

Graduate Computer Science Researcher

2017-2020 – **Femto-st Institute, CNRS, Univ. Bourgogne Franche-Comté, France**

- ▶ Research on distributed intelligence for the purpose of creating programmable matter from large ensembles of modular micro-robots.
- ▶ Technical lead on VisibleSim, our C++ simulator for modular robotic researched used by several research teams around the world.
- ▶ Teaching and coordination of undergraduate and graduate courses, participated in the design of a distributed programming course.
- ▶ 5 publications in renowned international journals and conferences.

Master's Degree Graduation Project

2017 (6 MONTHS) – **Supralog, Antibes, France - Intr@ssoc ERP Software**

- ▶ Design of a secure REST server infrastructure and C# implementation.
- ▶ Design of a reactive Javascript module with VueJS 2.0 for the WebApp of our ERP for non-profit organizations, leveraging the API above.
- ▶ Design of a cross-platform Xamarin mobile application providing the core features of our product, tailored to a mobile environment.

Research Assistant / Software Engineering Intern

2016 (4 MONTHS) – **The Hong Kong Polytechnic University, Hong Kong**

- ▶ Kick-started VisibleSim, a graphical simulator for modular robotic research from a pre-release state to its first stable version!
- ▶ Architectural overhaul of the simulator, refactoring, documentation, et addition of new modules and features for supporting research.

iOS Developer

2015-2016 (4 MONTHS) – **NSigma JE, Grenoble-INP Ensimag, France**

- ▶ Patches and updates on an iPad application for professional fluid meter reading, with a strong involvment of the client, Engie Cofely.

Research Assistant

03/2014 - 07/2014 – **Carnegie Mellon University, USA - Claytronics Project**

- ▶ Contributed to the Claytronics project modular robotic research for programmable matter and C implementation of an embedded virtual machine for the Meld language, now used in education and research.

EDUCATION

PhD in Computer Science

10/2017-10/2020 – **FEMTO-ST, CNRS, Univ. Bourgogne Franche-Comté, France**

Master Degree in Computer Science and Engineering

2014-2017 – **Ensimag, Grenoble Institute of Technology, Grenoble, France**

- ▶ French "Grande École" in Computer Science and Applied Mathematics. Specialization in Information System Engineering .
- ▶ (Fall '16) Exchange Student at **Universidad Politecnica de Madrid**, Spain.

PIERRE
THALAMY

AGE
24 years old

PHONE
+33 (0)6 27 83 07 99

EMAIL
pierre.thalamy@gmail.com

LINKEDIN
linkedin.com/in/pthalamy

GITHUB
github.com/pthalamy

LANGUAGES
French
English (Proficient):
TOEIC 985 (2014)
Spanish (Intermediate)

MOBILITY
International

PIERRE
THALAMY

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APPENDIX

PUBLICATIONS AND HONORS

International Journals

- ▶ **Pierre Thalamy**, Benoît Piranda, and Julien Bourgeois. "A Survey of Autonomous Self-Reconfiguration Methods for Robot-Based Programmable Matter." Robotics and Autonomous Systems 120. 2019.
- ▶ **Pierre Thalamy**, Benoît Piranda, Frédéric Lassabe, and Julien Bourgeois. "Deterministic Scaffold Assembly By Self-Reconfiguring Micro-Robotic Swarms." Swarm and Evolutionary Computation: Special Issue on "Parallel/ Distributed Combinatorics and Optimization" 2020.

International Conferences

- ▶ **Pierre Thalamy**, Benoît Piranda, and Julien Bourgeois. "Distributed Self-Reconfiguration Using a Deterministic Autonomous Scaffolding Structure." In Proceedings of the 19th International Conference on Autonomous Agents and MultiAgent Systems, 140–48. Montreal QC, Canada, 2019.
- ▶ **Pierre Thalamy**, Benoît Piranda, Frédéric Lassabe, and Julien Bourgeois. "Scaffold-based Asynchronous Distributed Self-reconfiguration by Continuous Module Flow." In Proceedings 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems. Macau, China, 2019.
- ▶ **Pierre Thalamy**, Benoît Piranda, and Julien Bourgeois. "Coating Self-assembly for modular robotic scaffolds." In Proceedings 2020 IEEE/RSJ International Conference on Intelligent Robots and Systems. Las Vegas, USA, 2020.

Service to Academia

- ▶ 2020. Guest reviewer for Springer Algorithmica.
- ▶ 2020. Delegate reviewer for IROS 2020.

Seminars

- ▶ August 12 – 17, 2018. Dagstuhl Seminar 18331. "Algorithmic Foundations of Programmable Matter." https://bit.ly/2Qmi4WT

Scholarships

- ▶ 2019. Mobility scholarship awarded by the International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS) in the context of the AAMAS 2019 conference: $1,000.

TEACHING

Undergraduate Courses in Networking and Telecommunications - University of Franche-Comté, France

- ▶ Spring '18-'20. Network Infrastructure Security. **Course Coordinator. [Lecture 7.5h, Tutorials 7.5h, Lab 15h] / year.**
- ▶ Fall '17. Operating System and System Programming. **Course Coordinator. [Lecture 6h, Lab 39h].**
- ▶ Spring '18-'20. Security and Performance. **Teaching Assistant. (12h / year).**
- ▶ Spring '18-'20. Internet Technology 2. **Teaching Assistant. (12h / year).**
- ▶ Fall '17. Initiation to Web Development. **Teaching Assistant. (15h).**

MSc in Internet of Things - University of Franche-Comté, France

- ▶ Fall '20. Swarm Robotics and Modular Robot Programming. **Teaching Assistant. (6h).**