



# Maxence Bobin

*Ph.D. student in Computer Science*

## Ph.D thesis

- title *Internet of Things for upper limbs monitoring of stroke patients.*
- supervisors Mehdi Ammi, Margarita Anastassova, Mehdi Boukallel
- location LIMSI-CNRS, Laboratoire d'Informatique pour la Mécanique et les Sciences de l'Ingénieur, Paris-Saclay University
- description Conception, development and assessment of smart objects designed for monitoring activities of the daily living of stroke patients.
- highlights Internet of Things, e-health, sensors integration, basic electronic

## Education

- 2014–2015 **Master Degree**, *Paris-Saclay University, Orsay.*  
Research in HCI (Human-Computer Interaction), Virtual and Augmented Reality
- 2012–2015 **Engineer Degree**, *ENSIIE, Evry.*  
Ecole Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise. Computer Sciences, Mathematics, Management, Communication and Foreign languages.
- 2012–2013 **Bachelor Degree**, *UEVE, Evry.*  
Evry Val d'Essonne University. Topology, Measure and Functions space.
- 2010–2012 **Preparatory Classes (CPGE)**, *Lycée François 1er, Le Havre.*  
MPSI/MP, Industrial Sciences option
- 2010 **Baccalaureate with honors**, *Lycée Saint Joseph, Le Havre.*  
Scientific option with German economics-oriented classes

## Experience

### Vocational

- 2017-2018 **Teacher Assistant**, *IUT, Orsay, 2 semesters.*  
Supervising classes:
- Graphical Algorithmic: implement algorithms to draw shapes on a pixel grid.
  - Android project management: help a group of student to deal with project management (need analysis, requirements specification, distribution of tasks, implementation, progress management) during the conception and development of an Android application
  - Object-Oriented Programming: basics on Object-Oriented programming (Java)
  - Android Programming: basics on Android programming
- 2015 **Final year internship**, *LIMSI-CNRS, Orsay, 6 months.*  
Working on my thesis: State of the art on smart objects for post-stroke rehabilitation, conception and development of a first smart object prototype.

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2014 **CTO in a start-up project**, Zester, Evry, 4 months.  
Pre-incubation at Telecom Sud-Paris start-up incubator. Working on an innovating start-up project and development of two Android applications in the bar area.

2013 **Internship**, S2F Network, Le Havre, 3 months.  
Creation of Web platform designed to manage customers equipments and set up of an automated link software between "MultiDevis" and the web platform.

#### Miscellaneous

2011–2013 **Private Tutoring**, Le Havre.  
Mathematics and Physics, for students in Première and Terminale S

2009–2013 **Trumpeter in a vocational training**, Le Havre.  
During official ceremonies such as July 14th, on November 11th...

## Languages

English Fluent *Language trips in English-speaking countries., TOEIC : 895*  
German Good skills *Language trips in German-speaking countries, B1 certification*

## Skills

### General skills

Engineering Knowledges of the differents phases of conception and development of an interactive application, **User Centered Design** and **Project Management**

### Specific skills

IoT Design and conception of **Internet of Things** systems  
e-health Mastery of **e-health problematics**

### Technical skills

Languages Java, C/C++, Python, OCaml, Assembleur 68k, SQL, Bash  
Development GCC, Android Studio, Arduino, Raspberry Pi  
Bonus Virtual and Augmented reality basics (3Dvia Studio, Unity, ARToolKit), Computer Graphics basics (OpenCV, ThreeJS, OpenGL)

## Interests

Music **Basic school-leaving qualification in trumpet playing with honours**, July 2011, Academy Arthur Honegger.  
**Trumpeter for 17 years**, ex-Chairman and Solo main cornet of Brass Band en Seine, Webmaster of <http://brassbandenseine.fr>

Sports Practice of athletics in competition for 10 years and judo during 8 years. Discovery of other sports (basketball, tennis, swimming)

Clubs and Societies **Ex-Chairman of AstronomIIE** (astronomy club, ENSIIE), **Ex-Office Member of LanPartIIE** (Person in charge of games servers, organization of events such as ENSIIE Game Show), **Ex-Office Member of Arise**, Administrateur du Réseau Informatique et des Services aux Étudiants (Person in charge of communication)

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## Publications

- [1] Maxence Bobin, Hamdi Amroun, Sabine Coquillart, Franck Bimbard, and Mehdi Ammi. Dnn based approach for the assessment of elbow flexion with smart textile sensor. In *2017 IEEE International Conference on Systems, Man, and Cybernetics*, 2017.
- [2] Maxence Bobin, Margarita Anastassova, Mehdi Boukallel, and Mehdi Ammi. Sympathy: smart glass for monitoring and guiding stroke patients in a home-based context. In *Proceedings of the 8th ACM SIGCHI Symposium on Engineering Interactive Computing Systems*, pages 281–286. ACM, 2016.
- [3] Maxence Bobin, Mehdi Boukallel, Margarita Anastassova, and Mehdi Ammi. Smart cup for festival alcohol consumption awarness. In *IEEE 4th World Forum on Internet of Things*. IEEE.
- [4] Maxence Bobin, Mehdi Boukallel, Margarita Anastassova, and Mehdi Ammi. Study of a smart cup for home monitoring of the arm andhand of stroke patients. In *Proceedings of the 18th International ACM SIGACCESS Conference on Computers and Accessibility*, pages 305–306. ACM, 2016.
- [5] Maxence Bobin, Mehdi Boukallel, Margarita Anastassova, and Mehdi Ammi. Etude et développement d'un verre intelligent pour le suivi d'activité à domicile des patients post-avc. *Internet des objets*, 1, 2017.