



Dr. Thomas BOURGEAU  
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41 years  
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## Senior Consultant and Researcher in Digital Transformation

### Personal Statement

As a senior digital transformation expert with **12 years proven track on research, education and innovation in academia and industry**, I have a solid experience in project coordination, team management, innovation transfer, research dissemination, entrepreneurship and digital education. **Professional, Creative and Collaborative**, I like to take up innovative and societal challenges applied to concrete projects with service and product implementation by bringing together my technological expertise, my experience in project management, my practice of digital learning and my ability to work collaboratively to implement adapted and efficient solutions.

### Professional Experience

- Jan 2018 - Jan 2020** **CTO - KB DIGITAL AG** (Consulting company - Switzerland)  
**Duties:** Consulting, Coaching and Support for industrial customers projects in digital transformation (Web, Cloud, IoT & Cybersecurity).  
**Customers:** Hager, Derichebourg, Alcatel-Enterprise, SETEC Buildings.
- Juin 2016 - Dec 2017** **CTO - BlumenLab SAS** (Startup - France)  
**Duties:** Research and Development of an innovative product for publishing and broadcasting [immersive content](#) in Virtual and Augmented Reality.  
**Customers:** SNCF, RATP, Galeries Lafayette.
- Dec 2015 - Dec 2017** **Invited Researcher at TSP** (School of Engineering- France)  
**Research:** Ubiquitous Internet, Mobile Networks, IoT, Cybersecurity.  
**Duties:** Research Projects submission (EU H2020), Student supervision.
- Jan 2015 - Dec 2017** **Consultant and Instructor - Bourgeau Consulting** (Freelancer - France)  
**Services:** Specialized consulting in the field of Networks, Communicating Objects and Cybersecurity. **Seminars and Lectures** on IP Networks, Web Development and the Internet of Things.  
**Customers:** Renault, ORSYS, ATOS.
- Sep 2009 - Sep 2014** **Doctoral Student at UPMC** - (University - France)  
**Subject:** Internet paths mapping at the IP-Level.  
**Results:** Design of a distributed measurement system (TopHat) and an enhanced algorithm for observed dynamics prediction (OpenLab Project).
- Jan 2007 - Sep 2009** **Research Engineer - UPMC** (University - France)  
**Duties:** European project coordinator (OneLab - 10 partners), Administrator and maintainer of the PlanetLab Europe network experimental facility.
- Jan 2006 - Dec 2006** **Junior Engineer - Sogeti High Tech** (Consulting company - France)  
**Duties:** Specification and validation of on-board modules (ABS and Airbag) using the CAN communication protocol.

## Expertise

- Management:** **Projet Management** (Specifications, Coordination, Planning, Validation, Delivery), **Methods** (V-Model, Agile Model, Design Thinking).
- Technology:** **Networks** (Internet, Cellular, Cybersecurity), **Architecture** (Cloud, Edge, Embedded), **Hardware** (Design and Prototype), **Machine Learning** (TensorFlow).
- Computer Science:** **Languages** (C/C++, Python, PhP), **Web** (HTML, CSS, Javascript, MySql), **Tools** (MS Office, Git, Jira), **OSes** (Linux, Windows, Android).
- Languages:** **French** (Native), **English** (Oral/written fluency) and **German** (A2 Level)
- Soft Skills:** Creative, Persistent, Collaborative and Rigorous.

## Education & Qualifications

- 2013** **Doctorate in Computer Science** - University Pierre et Marie Curie (UPMC - Paris)  
Specialty area: Network Communication and Algorithmics  
Subject: Internet paths mapping at the IP-Level.
- 2005** **Master of Science in Computer Science** - (UPMC - Paris)  
Major: Network and Telecommunication
- 2003** **Bachelor of Science** - (UPMC - Paris)  
Major: Computer Science and Electronics

## Industrial & Research Projects

- 2019 - 2020:** **Trans4Mation (EU-Erasmus+)** Knowledge Alliance for the Industry 4.0.  
**Rôle:** Development of new immersive learning methods with virtual reality.
- 2017:** **CareWare (EU-H2020):** eHealth IoT solutions.  
**Role:** IoT consultant responsible for embedded measurement equipments.
- 2015 - 2016:** **Access Story (Renault-Atos):** Migration of Renault services to the Azure cloud.  
**Role:** Cybersecurity expert responsible for the architecture and deployment.
- 2012 - 2013:** **Smart Santander (EU-FP7):** First European SmartCity deployment.  
**Role:** Integration of the OpenLab platform to pilot SmartCity field experiences.
- 2007 - 2011:** **OpenLab - OneLab (EU-FP7):** Experimental network facility  
**Role:** Project coordinator (OneLab, 2 years, 10 partners), Engineer and Researcher leading the distributed measurement work packages.

## Teaching Experience

- Since 2016 :** **Lecturer at ESCP Europe (110h)** (Business School - France)  
**Business Networks & Security** (En - 40h) , **Digital Insights : algorithmics and programming** (En - 70h)
- Since 2015 :** **Independent Instructor (455h) - ORSYS** (Training Company - France)  
**Internet of Things: An Overview** (Fr/En - 266h) , **Wireless Network Technology** (Fr/En - 105h) , **IP Services and Protocols** (Fr - 84h)
- 2009 - 2014 :** **Lecturer at UPMC (428h)** (University - France)  
**Network Architectures** (Fr/En, Master, 239h), **Web technology** (Fr, Bachelor, 115h), **Network Security** (Fr, Bachelor, 74h)

## Selected Publications

- [1] Hakima Chaouchi and Thomas Bourgeau. *Internet of Things: Building the New Digital Society*. Ed. by IOT Journal. MDPI - open access journal, 2018.
- [2] Hakima Chaouchi and Thomas Bourgeau. *Will all jobs require programming skills in the growing digital society?* ITU Journal, 2020.
- [3] Thomas Bourgeau, Hakima Chaouchi, and Pinar KIRCI. *Machine-to-machine communications, Next-generation wireless technologies : 4G and beyond*. Computer Communications and Networks, Springer, 2013, pp. 221–241.