



Dr. Thomas BOURGEAU
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40 years
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SENIOR CONSULTANT IN DIGITAL TRANSFORMATION

PERSONAL STATEMENT

As a highly-skilled **Consultant** and experienced industrial **Researcher**, I have a 12 years proven track record in the field of **Networks and Information Technology**. I am recognized as an **Internet of Things (IoT)** evangelist and **cybersecurity** expert that have accompanied industrial customers in their digital transformation projects and their technological development. **Rigorous, Persistent and Collaborative**, I like to take up industrial innovative challenges linked to **digital transformation** by bringing together my **technological expertise**, my experience in **project management** and my ability to co-build adapted and **efficient solutions**.

PROFESSIONAL EXPERIENCE

- JAN 2018 - JAN 2020** **Senior Consultant - 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** (B2 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

- 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*. MDPI IOT Journal, 2018.
- [2] Nahit Pawar, Thomas Bourgeau, and Hakima Chaouchi. *PrIoT: Prototyping the Internet of Things*. IEEE FiCloud, 2018, pp. 216–223.
- [3] Xavier Carcelle and Thomas Bourgeau. “The Internet of Things: Connecting Objects”. In: Ed. John Willey and Sons, 2013. Chap. Power Line Communication Technology Overview.
- [4] Thomas Bourgeau, Jordan Augé, and Timur Friedman. *TopHat: Supporting Experiments through Measurement Infrastructure Federation*. Vol. 46. Springer, 2011, pp. 542–557.