Lionel Barrere

lionel.barrere.org

CTO & R&D Director

PhD in Computer Science · Network Metrology · R&D Management · Distributed Systems

PROFESSIONAL EXPERIENCE

CTO / R&D Director
November 2008 — Present

H5 audits — H5-Network brand

Created and led the R&D; department from scratch. Technical strategy leadership: product design, software architecture, development and commercialization of network metrology solutions. Recruitment, team management and HR. Development of high-performance passive probes and monitoring tools, among the most competitive on the market.

H5-APPLIANCE   H5-FLOW   H5-BOX   H5-CLOUD   H5-RT

Doctoral Consultant
2007

Bull — Bordeaux, France

Design of an alert solution for urban transportation based on SMS and geolocation.

PhD Researcher / Lecturer
2005 — 2009

LaBRI — University of Bordeaux

Research on military mobile ad hoc networks (MANet). Supervision of Master's thesis projects, teaching at Bachelor and Master levels. 3 international publications (MobiWac, MILCOM).

SKILLS

NETWORKING	DEVELOPMENT	MANAGEMENT	RESEARCH
› Metrology & monitoring	› C / C++, Java, Python	› R&D team leadership	› Ad hoc networks (MANet)
› Passive probes	› Software architecture	› Recruitment & HR	› Mobile systems
› TCP/IP, Ethernet	› Distributed systems	› Project management	› Scientific publications
› WiFi, Bluetooth	› High performance	› Product strategy	› MSc supervision
› Flow analysis	› Pcap, Posix Threads	› Technical roadmap	› Peer review

EDUCATION

2005-2009 **PhD in Computer Science**
LaBRI, University of Bordeaux — DGA/CNRS grant — Adv. S. Chaumette

2005 **MSc Distributed Systems, Networks & Parallelism**
University of Bordeaux 1 — With Honours — Research track

2004 **BSc Computer Science (4-year)**
University of Bordeaux 1 — With Honours

2003 **BSc Computer Science (3-year)**
University of Bordeaux 1 — With Honours

PUBLICATIONS

1. L. Barrere, S. Chaumette, C. de Peretti — "Delay Tolerant Dynamic Data Collection over a Sensor Network" — MILCOM 2007, Orlando, USA

2. L. Barrere, S. Chaumette, J. Turbert (DGA) — "A Tactical Active Information Sharing System for Military MANets" — MILCOM 2006, Washington D.C., USA

3. L. Barrere, A. Casteigts, S. Chaumette — "A Totally Decentralized Document Sharing System for Mobile Ad Hoc Networks" — MobiWac 2006, Torremolinos, Spain