

Baptiste Fouques

CISSP SENIOR INDUSTRIAL CYBERSECURITY SPECIALIST

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Education

Télécom Paris (École Nationale des Télécommunications)

Paris, France

MASTER OF SCIENCES IN COMPUTER SCIENCES AND ENGINEERING

2003 – 2006

- Software development, Project management, Cybersecurity of Information Technologies, Mathematics applied to computer sciences
- Image and signal processing, Pattern recognition, data extraction

Skills

Cybersecurity

Risk management, IT & OT Security, Secure Design, Security analysis, IEC 62443, ISO 27 000

Railway Systems

Signalisation and Rolling Stocks, Safety and failsafe technologies, EN 50 155, EN 50 12x

Information Technologies

Software architecture, Embedded systems, Realtime distributed systems, CPU, BIOS, DSP

Languages

French, English

Experience

Alstom

Lyon, France

SENIOR CYBERSECURITY SPECIALIST FOR RAILWAY SOLUTIONS AND SERVICES

Since 2016

- Technical leader on cybersecurity management for railway solutions and development
 - standard architecture and methodology definitions based on **IEC 62443** for railway solutions and services
 - standard security measures definition on system components depending on their security assumption and needs
 - standard software design and development rules definition for software components depending on their role
 - support major tenders and projects on cybersecurity topics
 - lead or follow various risk analysis on complete Alstom systems
- Cybersecurity deployment in Alstom
 - Advanced architecture principles training redaction and provision
 - Advanced software principles training redaction and followup
- Cybersecurity European ecosystem
 - meet major national organisation in charge of cyberdefense **UK – CPNI, FR – ANSSI**
 - participation to European normalisation groups **CENELEC TCX9 WG 26**
 - participation to European industrial workgroups **Roll2Rail**
 - member of *Rhône-Alps CLUSIR (Club de la Sécurité de System D'information Régional)*

Alstom

Lyon, France

CYBERSECURITY ARCHITECT FOR RAILWAY SYSTEMS AND PRODUCTS

2013 – 2016

- cybersecurity ecosystem analysis in industrial context
- needs analysis and proposition of appropriate security measures to protect railway systems and products

Alstom

Paris, France

TECHNICAL MANAGER ON RAILWAY AUTOMATIC CONTROL SYSTEM URBALIS

2008 – 2013

- Technical manager on SIL4 software
 - formal B system, formal B method, Ada development language, Coded mono-processor technologies and development
- SILO SIL4 application software Architect
 - embedded and highly distributed system
 - failsafe software mechanisms
- Technical choices for major functions of an Automatic Train Control system
 - Alignment of process and way of working of software development teams

ATEME

Paris, France

RESEARCH & DEVELOPMENT ENGINEER

2006 – 2008

- Design and development of embedded software on electronic board dedicated to video signal processing.

Other experiences

OpenTV

Mountainview, CA, USA

SOFTWARE ENGINEER (INTERNSHIP)

July – Decembre, 2005

- Design and implementation of data transmission protocol for Satellite – Set top box one way communication
 - Error correcting code, embedded development, system programming

Student Computer Network management organization for Télécom Paris

Paris

HEAD OF ORGANIZATION

2004 – 2005

- Team Management and control of a network made of 500+ servers and individual computers.

Student Office for Télécom Paris

Paris

MEMBER

2004 – 2005

- Student house manager, computing means and tools

Honors & Trainings

HONORS

2018 **CISSP – Certified Information Systems Security Professional, (ISC)²**

2018 **Senior Expert Cybersecurity, Alstom World Class Engineering**

TRAININGS

2016 **Cybersecurity management and system architecture, Airbus – APSYS**

10 days

2014 **Cybersecurity for ICS, Hervé Schauer Consultants**

5 days

Interests

Groupe Alpin Universitaire Lyonnais

Lyon, France

TREASURER & EXECUTIVE

2014

- Manage and allocate association budget.
- Lead beginner and experienced participants in cross country skiing and mountain hiking journey

Mountain and Crosscountry skiing

FSGT – France

FEDERAL INSTRUCTOR

2014

Indoor and Outdoor climbing

FSGT – France

FEDERAL INSTRUCTOR

2008