



Julien
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IoT Architect

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About me

Software Architect with 20+ years of experience:

- ★ Holistic view of IoT: cloud, embedded software, hardware, security, protocols and customer business transformation
- ★ Strong communication skill and public speaking experience
- ★ At scale backend and embedded software hands-on experience
- ★ Years of experience in leading and developing opensource software project

Work experience

- Since August 2022 • **IoT Architect**
EdgelQ Remote
 - **SaaS product design** running on AWS (Java, Go, Kubernetes, Apache Kafka)
 - IoT: **Lightweight M2M integration and hardening, MQTT, IoT security**
- Since 2021 • **Sr. Director Architecture**
Sierra Wireless Toulouse, France
Lead the global IoT platform architecture team:
 - **AWS and Azure cloud**
 - **Embedded software (Linux/RTOS)**
 - **End-to-end system architecture**
- From 2017 to 2021 • **Principal Engineer: System Architect and R&D manager**
Sierra Wireless Toulouse, France
 - **Principal Architect for Sierra Wireless Octave:** New Leading Device-to-Cloud IoT Platform
 - **Technical leadership:** From incubating the idea to Minimum Viable Product
 - **Management:** Globally distributed engineering team (Canada, France, Vietnam)
 - **Thought leadership:** Subject matter expert on IoT protocols (LWM2M, CoAP, MQTT) and security
- From 2011 to 2017 • **Principal Engineer, IoT Cloud**
Sierra Wireless Toulouse, France
 - **Principal Engineer:** In charge of the design, development and operation of multiple device management server: OMA-DM, Lightweight M2M, CoAP, MQTT. Managing up to 5 millions of devices.
 - **Technical leadership:** device to cloud communication and security: PKI HSM TLS
 - **DevOps:** Hosted and operated on premise and AWS cloud
 - **Thought leadership:** public speaking and leading open-source projects (Eclipse Leshan, Californium, Wakaama), standard body contribution (OMA)
- From 2005 to 2011 • **Software Engineer - R&D Leader**
Archean Technologies Montauban, France
 - **Management:** Team of 4 engineers, Java server, Embedded software and Electronic design
 - **Engineering:** Development of public address sound management appliance, build on Java and embedded Linux (Buildroot) and Audio Digital Signal Processing
 - **Innovation:** New low latency (sub 10ms) voice streaming system for fire safety, based on CELT, SPEEX, MP3, ALSA, µC Linux on Blackfin DSP processor
- From 2002 to 2005 • **Software Engineer**
Tyco Fire and Security / Bouyer Montauban, France
In charge of the public address SCADA system development (Java, C++)
- From 2001 to 2002 • **Software Engineer**
Technicoffice Toulouse, France
Car fleet management software development, Java/Php/Oracle.
- From 2000 to 2001 • **Project Manager**
R-Système Toulouse, France

Education

- 2003 • Bachelor's degree (DEST)
Conservatoire National des Arts et Metiers Toulouse, France
- 1999 • DUT
Univeristy of Toulouse III Toulouse, France

Other

Opensource:

- Founder of Eclipse Leshan: <https://www.eclipse.org/leshan/> the leading LWM2M implementation
- Member of the Apache Software Foundation (Apache MINA, Directory and mentoring)

Public speaking:

Thingmonk 2017: "What the M2M grandpas can teach the IoT kids"

EclipseCON EU 2016: "Hands-on: Manage your devices with Lightweight M2M and connect them to your cloud"

OMA LWM2M Workshop 2016 (San-Diego): "Running a LWM2M client on Arduino Yun, MangOH & Qualcomm"

Virtual IoT meetup: "Building and managing IoT apps with LWM2M"

Toulouse IoT meetup: "The 5th Elements of IoT Security"

EclipseCON FR 2015: "The 5th Elements of IoT Security"

EclipseCON FR 2015: "Hands-on with Lightweight M2M: run a smartwatch on the IoT"

EclipseCON NA 2015: "The 5th Elements of IoT Security"

OMA LWM2M Workshop 2015: "Eclipse IoT & Lightweight M2M"

Oracle JavaONE 2014: "Powering your next IoT application with MQTT"

Oracle JavaONE 2014: "Find your way through the IoT protocol jungle with Java"

IoTConf Berlin 2014: "M2M, IoT One Protocol to rule them all?"

EclipseCON France 2014: "Hands-on with CoAP"

Eclipse Day Florence: "M2M, IoT One Protocol to rule them all?"

Toulouse IoT meetup: "Introduction to MQTT"

EclipseCON NA 2014: "M2M, IoT One Protocol to rule them all?"

EclipseCON NA 2014: "Powering your next IoT application with MQTT"

EclipseCON FR 2013: "The CoAP protocol"

Blog: <https://medium.com/@vrmvrm>

Slides: <https://www.slideshare.net/jvermillard>

Github: <https://github.com/jvermillard/>

Languages

French

English

Spanish

Social networks

in @jvermillard

🐦 @vrmvrm