Julien Beaudaux

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🌐 in *JBeaudaux*

6+ years of experience in Real-Time systems, embedded linux and networking for medical applications

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Key skills

Technical skills

Embedded systems	○ Embedded real-time OSs (RTX, Contiki) ○ Embedded linux (Buildroot, Yocto) ○ SPI, UART, I2C communication
Networking	○ Protocol stacks (TCP/IP, Bluetooth, GSM) ○ Internet of things (Zigbee, Sigfox, RFID)

Langages	★★★★☆ MISRA C ★★★★☆ Python ★★★☆☆ C++ & Java
Misc.	○ Unit testing, static analysis (Parasoft) ○ Data-analysis (statistiques, numPy)

Other skills

Research & innovation	○ 10+ research articles (1 best-paper award) ○ Involved in Open-Source projects
Project and team mngt.	○ Management and editorial capabilities ○ Project steering tools (Gantt, DCF, DITA)

Languages

French - Mother tongue, **English** - Fluent, **Japanese** - Advanced, **Ukrainian** - Intermediate

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Relevant experiences

11/2014 - present

Lead R&D engineer, Schiller Médical, Wissembourg, France.
Missions :
○ 60% - Embedded software development on emergency medicine devices and their connectivity components
○ 40% - Project software team management (5 people), norms and product conformity assessment (CE mark/FDA)

11/2013 - 10/2014

R&D engineer and project manager, NTNU, Wissembourg, France.
Missions :
○ 60% - Development of life-logging solutions, deployment of a smart-home platform
○ 40% - Project management, documentation for H2020 project proposal

06/2012 - 12/2012

R&D engineer, Internet Initiative Japan (NASDAQ: IIJI), Tokyo, Japan.
Missions :
○ 100% - Adaptation, intégration et déploiement d'un service Cloud de stockage distribué et sécurisé.

01/2010 - 10/2013

Ph.D candidate, ICube laboratory, Strasbourg, France.
Missions :
○ 80% - Conception and development of a low-power and self-adaptive protocl stack for the Internet of things
○ 20% - Research papers publication, teaching and conferences

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Open-source projects

Some of my contributions are available on **github**. See more infos using the hyperlink.

Blue-prints **Life-logging solution for activity anomaly detection :** Development of a connected watch for at-risk patients, equipped with an alarm button and a fall-detection mechanism.

IoTLab **Internet of things experimental platform :** Developement of a tool to monitor and map performances (RTT, loss-rate, nodes energy consumption, etc.). Conception of a demonstrator for the IoT.

Blue-prints **Solution médicale de détection de crises :** Développement d'une montre connectée pour patients à risque, dotée d'un bouton d'alarme, d'un mécanisme de détection de chutes.

Education

2013 **Ph.D in computer science**, Sensor networks for telemedicine, *University of Strasbourg, France.*
2010 **Master degree in computer networks and embedded systems**, *University of Strasbourg, France.*
2008 **Bachelor's degree in computer science**, *University of Strasbourg, France.*

Non-formal learning

2016 **Project management**, 45h-long formation , *École centrale de Lille, France.*