Julien Beaudaux

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JBeaudaux

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

Key skills

Technical skills

Embedded systems
- Embedded real-time OSs (RTX, Contiki)
- Embedded linux (Buildroot, Yocto)
- SPI, UART, I2C communication

Langages
- MISRA C
- Python
- C++ & Java

Networking
- Protocol stacks (TCP/IP, Bluetooth, GSM)
- Internet of things (Zigbee, Sigfox, RFID)

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

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% - Development of a real-time monitoring solution for cloud storage systems, at system and network level.

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

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.

Tamias **Self-hosted and secure Cloud storage system :** Introduction of mutable files in the system and performance enhancement for small-sized data files.

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.*