

Julien Beaudaux

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📍 Strasbourg, Alsace



Key skills

Technical skills

Embedded systems

- Real-time OSs : Free-RTOS, RTX, Contiki
- Embedded Linux : Buildroot, Yocto
- Low-level development

Languages

- ★★★★★ MISRA C / C++
- ★★★★☆ Python, Java
- ★★★☆☆ Angular, HTML5, CSS

Networking

- Standard protocols : TCP/IP, GSM
- Internet of things : Sigfox/LoRa, Zigbee

Quality control

- Continuous integration, static analysis
- Unit and performance testing

Functional skills

Project steering

- Knowledge in project management
- Experience in team leadership

Project steering

- Applicable documents writing
- Medical norms : ISO 62304, CE & FDA

Languages

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

Relevant experiences

11/2014 - Présent



Lead R&D engineer - Schiller Médical, Wissembourg, France.

Missions :

- Participation to project implementation and follow-up**
 - Management of a 5-engineers software team
 - Responsible for production rollout and hardware and software qualification
 - Documentation of the project software part and control of the applicable norms
- Embedded software development on emergency medicine devices**
 - MISRA C and C++ development on STM32 et IMX28 targets
 - Development of communication components with Lora/Sigfox & GSM and mobile applications with Ionic
 - Implementation of continuous integration tools and quality assurance processes

Products :

- FRED PA-1** : Connected public-access defibrillator [🔗](#)
- Open-Heart** : Physical activity coach for at-risk patients [🔗](#)

11/2013 - 10/2014



Lead research engineer - St-Olav Hospital / NTNU, Trondheim, Norway.

Missions :

- Medical research project management**
 - Documentation for European H2020 project proposal
- Remote patient monitoring domotic solution development**
 - C development on MSP430 target of connected smart-watch and domotic sensors

06/2012 - 12/2012



R&D engineer, Internet Initiative Japan (NASDAQ: IIJI), Tokyo, Japan.

Missions :

- Python development of a secure and distributed cloud storage systems

01/2010 - 10/2013



Ph.D candidate, ICube laboratory, Strasbourg, France.

Missions :

- Realisation of a low-power and self-adaptive protocol stack for the Internet of things**
 - C development on MSP430 target
 - Large-scale deployment and performance study
- Scientific publications (10+ research articles, 1 best-paper) & teaching**

References

Didier Meyer

Industrial Affairs Director, project manager - Schiller Médical, didier.meyer@schiller.fr.

Yuming Jiang

Professor in Telematics, project manager - NTNU, jiang@item.ntnu.no.

Keiichi Shima

Senior researcher - Internet Initiative Japan, keiichi@iijlab.net.

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*.