Julien Beaudaux

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Key skills

Embedded systems
- Real-time OSs : Keil CMSIS, Contiki
- Embedded Linux : U-boot, Busybox
- Communication busses and drivers

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

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

Quality control
- Continuous integration, static analysis
- Documentation and medical norms : ISO 62304 & 62366, CE & FDA

Languages **French -** Mother tongue, **English -** Fluent, **Japanese, Ukrainian -** Intermediate, **German -** Beginner.

Relevant experiences

11/2014 - Présent

Lead R&D engineer - Schiller Médical, Wissembourg, France.
Missions :
- **Embedded software development on emergency medicine devices**
  - MISRA C and C++ development on STM32 & IMX28 targets
  - Development of communication components with GSM & Lora/Sigfox and mobile applications with Ionic
  - Implementation of continuous integration tools (Python) and quality assurance processes
- **Participation to projects implementation and follow-up**
  - Responsible for production rollout and hardware & software qualification
  - Responsible for software team and quality control (documentation, control of applicable norms)

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 :
- **Remote patient monitoring domotic solution development in C on MSP430 targets**

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-based sensor nodes
  - Large-scale deployment and performance study on a 256-node network (IoT-Lab platform ⧉)

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.*

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.
Jean Lorchat	**VP Japan Operations - *Lumiscaphe* (ex-project manager for IIJ)**, jean.lorchat@jp.lumiscaphe.com.