Julien Beaudaux

Embedded systems development engineer

26 rue de la Haie Griselle
88400 Gérardmer, France
✆ *(+33) 675.981.424*
✉ *julienbeaudaux@gmail.com*
🖰 *blueprint-project.info/bdx.html*
Born on March 11th 1986, Married

Expériences professionnelles

Parcours professionnel

11/2014 - présent — **R&D Software engineer, Schiller Medical**, Wissembourg, France.
Missions :
○ Embedded software development for a defibrilator accessible to the general public

11/2013 - 10/2014 — **R&D engineer and project leader, St-Olavs hospital/NTNU**, Trondheim, Norway.
European projet MAIDAN - Metrics analysis of behavior & environment to identify pathways of healthy ageing
Missions :
○ Conception et deployment of a domotic life-logging prototype
○ Embedded systems programming for home-sensors and connected watches, and analysis of the resulting data
○ Project management, ensure the link with the medical personnel, internships supervision

06/2012 - 09/2012 — **R&D Software engineer, Internet Initiative Japan (NASDAQ: IIJI)**, Tokyo, Japan.
Missions :
○ Adaptation, integration and deployment of a private, secure Cloud storage service (Dropbox-like)
○ Development of a system and network stresstesting and benchmarking tool (BenchCloud)

09/2010 - 10/2013 — **Ph.D. candidate and teaching assistant, ICube Laboratory**, Strasbourg, France.
Title: "Auto-configuration and auto-adaptation for wireless sensor networks in the context of telemedicine".
Project : DAHLIA seniors Alsace
Missions :
○ Conception of a home-care system relying on a domotic sensor network
○ Development of a connected watch prototype for fall and cardiac anomaly detection
○ Teaching assistant at l'IUT Robert Shumann d'Illkirch and University of Strasbourg, supervision of internships

Implication communautaire et projets libres

2013 - présent — **Creator of the Blue print project**, *Open solutions for medical life-logging*, `blueprint-project.info`.
2012 - présent — **Contributor to the Tamias project**, *Open-source secure Cloud storage system*, `tamias.iijlab.net`.
2010 - 2013 — **Contributor to the IoT-LAB project**, *Internet of things experimenal testbed*, `iot-lab.info`.
Mai 2013 — **TEDx speaker**, *"A new vision to our medical record" (In french)*, `youtu.be/2hkCxFLfWHU`.

Education

2013 — **Ph.D. in computer science**, Wireless sensor networks for telemedicine, *Université de Strasbourg, France.*
2010 — **Master (M.Sc) in computer network & embedded systems**, *University of Strasbourg, France.*
2008 — **Licence (B.Sc) en mathématique et informatique**, *University Louis Pasteur*, Strasbourg, France.

Key skills

Computer science

Computer networks
○ Protocol stack (TCP/IP, Bluetooth, . . .)
○ Services (DNS, DHCP, CISCO devices, . . .)
○ Internet of things (802.15.4, Arduino, . . .)

Langages
★★★★½ C & embedded C
★★★★☆ Python & libraries
★★★★☆ Shell scripts (bash)
★★★½☆ Java & Android

Embedded systems
○ C & embedded OSs (Contiki, RTOS, Linux)
○ Knowledge in embedded Android and arduino
○ Experience in domotic sensors and watches

Other skills
○ Data analysis (statistics, numPy)
○ UNIX-based & Mac OSs, Android
○ Security (cryptography, authentification)

Research & innovation activities

Publications
○ Authored 10+ articles in computer networking and telemedicine (1 best-paper award)

Projets européens
○ Authored the PHC1 "MAIDAN" proposition
○ Co-authored the ITN "SENIT" proposition

Langues

French Mother tongue
English Bilingual (2 years living abroad)
Japanese Advanced level (Written, spoken)
Ukrainian Intermédiate level (Read, spoken)

Hobbies

Argentine Tango and Salsa dancing, Nyckelharpa playing, Amateur wine-tasting.