Mathieu Petitjean

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I am a an electrical engineer with experience in agile prototyping looking for challenging, ambitious and innovative projects !

Experience

Hardware and embedded firmware engineer
PRODUCTIZE, THE IoT AGENCY
Brussels, Belgium
Sep. 2018 - May 2019

- Agile prototyping & development
- Integration of wireless technologies (BLE, SigFox, NB-IoT, WiFi, RFID, GPS, ...) on hardware and firmware level
- Hardware design of electronics prototypes and products (KiCad)
- Hardware testing, validation and repair (manual SMT assembly and stenciling, reflow work)
- Firmware development (GCC, mbed, Nordic SDK, ESP-IDF, ...)
- Development of automation scripting tools (Python, Google App Scripts)
- Project and product management
- Customer handling

Electronics Engineer Intern & Student Job
PRODUCTIZE, THE IoT AGENCY
Brussels, Belgium
Jul. 2017 - May 2018

Internship as a junior Electronics Engineer, followed by a weekly day of work during the last year of my Master's.

Université libre de Bruxelles (ULB)
1-MONTH INTERNSHIP AS A RESEARCHER IN THE EMBEDDED ELECTRONICS DEPARTMENT UNIVERSITY LAB
Brussels, Belgium
Jul. 2016 - Aug. 2016

Research internship at BEAMS ULB to get acquainted with academic research.
Implementation of a prototype of visible light communication chain with LEDs and Raspberry-Pis.

Extracurricular activities

- **2018**: 1st runner-up of the Data Challenge, a Machine Learning contest held by the Solvay Digital Society
- **2015-2018**: private teacher of Science and Mathematics for high school students
- **2015-2018**: student representative of EIT students, member of the Faculty Council and Pedagogic Commission

Education

Master's degree of Electrical Engineering, with the Greatest Distinction
UNIVERSITÉ LIBRE DE BRUXELLES (ULB) AND VRIJE UNIVERSITEIT BRUSSEL (VUB)
Brussels, Belgium
2012 - 2018

- Specialization: Information and Communication Technology Systems
- Master Thesis: Wireless UAV networks - providing wireless coverage to ground units
- Publication: Fast localization of ground-based mobile terminals with a transceiver-equipped UAV
  2018 IEEE 29th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Bologna, 2018

Skills

SOFTWARE

- Advanced: C/C++, Linux, Git, Python, KiCad, mbed, Matlab/Octave, LaTeX
- Elementary: JavaScript, PSpice, VHDL, ARM Assembly, TensorFlow, UHD

LANGUAGES

French (mother tongue), English (full professional working proficiency), Dutch (basic knowledge)

Personal interests

- **Sports:** Runner (from 4x100m to half-marathon) and involved cyclist
- **Books:** passionate reader
- **Youth Movement:** active in 102nd unit since 2000