

BORE Patrick (23 years old)
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Driving license

Engineer Embedded Systems and Nanotechnology

Available from October 2018



Profile

Hard-working young engineer, I love **new technologies** and **electronics**. I'm a **fast learner** and will **adapt** to any situations. **Sociable**, I love to meet new people, that is why I moved to Dublin.

Education

2017 – 2018: **Dublin City University, Master of Engineering in Nanotechnology**
2013 – 2018: **ECE Paris, Master of Engineering in Embedded Systems**
2015: University of Newcastle (AUS), Study Abroad Experience

Language

French: Native language
English: TOEFL 102/120
TOEIC 940/990

Skills

Embedded systems

- **FPGA / VHDL**
- **Microcontrollers**
- Linux: **Raspbian**
- Proteus design and Altium Designer

Computer science

- **C / C++ / Java / Matlab / VBA / VB.net**
- **WEB: HTML / CSS / JavaScript / PHP / SQL**
- Linux: **Ubuntu/Debian**
- **Qt (C++) / GTK (C/C++)**
- **Versioning (Git/SVN)**

Hobbies

Caving, Travelling, 3D Printing, Retro Gaming, Sailing, Skiing, Snowboard, Rollerblade, Skate Board, Climbing, Paintball.



Employment/Projects History

2018: **Master Project / Team: 1 person**
Project: Implementation of Piccolo-80 (Ultra-light weight cryptography algorithm) on a System on Chip (SoC), a Zynq chip.
→ Communication between **FPGA** logic and **ARM processor** with AXI bus.

2018: Intel Bursaries for DCU Master Student.

2017: **Internship Symbio FCell / Team: 3 people / 4 months**
Part of the **design department** of a company around **Hydrogen** solutions.
→ Set up a new compilation chain for microcontroller STM32
→ Involved in the design of electronic cards (microcontroller and microcomputer) on Altium Designer.

2016 – 2017: **4th year Project / Team: 6 people / Team leader**
Project: **Air control** for commercial UAVs/Drones (**Open source**).
→ Objective: Safety for multiple UAVs in specific zones.
→ Set up of a **C++ Server** (Qt based) that formatted and redistributed **real time data** of a multitude of UAV's

2016 – 2018: **Volunteering / Team: 5-11 people / Trips and events officer**
→ Responsible of the **ECE Paris FabLab** (i.e. in charge of 3D printer)
→ Committee member of the **Caving Club** and **Climbing Club** in DCU

2016: **School project / Team: 4 persons**
Project: small C game (plant vs zombie) implemented on an EasyPic board with a **PIC18F4550 microcontroller** then design a small board for this application on the microcontroller.

2015: **Internship ASSECURIS / Team: 4 people**
Intern in an IT outsourcing company for a month.

2014 – 2015: **2nd year Project / Team: 6 people / Team leader**
French winner of the VEX Skyrise robotic competition.
→ Creating from scratch an optimized robot to win a specific game.

2013 – 2017: **Personal tutor / ~20 students** during these 4 years