



Benoit Debled
Software and Firmware Developer

✉ | Tournai, Belgium
@ | benoit@debled.com
🌐 | www.debled.com

PERSONAL PROFILE

I am a computer programmer with a passion for the digital world, which began at a very young age. I have started by creating some websites, then moved to managing some linux servers to later be a fan of the microcontroller's world. I am currently a student in Computer Science at the University of Mons, Belgium.

WORK EXPERIENCE

Intern • SEPT 2016 – NOV 2016

@Drooney – Liege, Belgium

Conception of a low-power sensor transmitting via **LoRa** and powered via **Arduino**. During this internship, I conceived from scratch the sensor using **Altium Circuit Maker**, managed the different LoRa layers (Router, Network, etc.), and also developed the database for the sensors's data and a web interface to visualize and analyze this data.

SysAdmin • SEPT 2016 – JUN 2016

@Computer Science Society – Mons, Belgium

Administrator of a server running a web server (**nginx**) and a cloud system (**OwnCloud**). After the creation of the Computer Science Student Organization in my university, I offered my knowledge to be the SysAdmin of the server.

IT Manager • AUG 2015 – SEPT 2015

@Group-IPS – Nivelles, Belgium

Substitution of the company's IT Manager for 3 weeks after working with him for the same amount of time. My job consisted of:

- Searching a good Windows deployment solution
- Providing a work environment for new workers by installing their laptops, creating their user account in Microsoft Active Directory, creating their mail account, etc.
- IT support

IT Summer Job • JUL 2012

@Sollix – Orchies, France

My job consisted of the migration of a mail system of a 50+ workers company from Zimbra to Microsoft Office 365

AWARDS

JURY PRIZE	Citizens of Wallonia Hackathon
SECOND PRIZE	HackUPC Hackathon
FIRST PRIZE & 4 OTHER PRIZES	Inno Pepites Junior with project snapClassify

PERSONAL PROJECTS

snapClassify

Organize your photos easily! Development of a desktop application using **Electron** and **Angular**. A GPS tracker was also developed using **Arduino** (microcontroller **SAMD21E18A**). The PCB of the tracker has been designed using **Altium Designer** and a custom **3D printed case** was conceived.

This project received **5 prizes** during the Inno Pepites Junior contest.

Aquarium Light System

Controlling an aquarium light system. **Eights LEDs** are individually controlled via an **Arduino** (microcontroller **SAMD21E18A**). Time is synced via a **NTP server**. It is possible to set rules. A rule can be: set the lights at 80% every Monday and Tuesday at 6PM. There is a web interface to control the system.

Alarm Clock

Wake up by a sunrise simulation and nature sounds. An **Arduino** controls the display, the buttons, the light sensors,... A **Raspberry Pi** controls the audio.

Quadcopter

Building, tinkering, flying. Two quadcopters: one with 8" propellers that can lift 250g, and the other one with 16" propellers that can lift 2.5kg.

//More Information about the projects on <https://blog.debled.com>

EDUCATION

2012 – 2018 **Computer Science, UMONS**
@Mons, Belgium

MASTER'S DEGREE

2011 – 2012 **McCUTCHEON High School**
@Lafayette, IN, USA

HIGH SCHOOL

2005 – 2011 **Math & Sciences**
@Tournai, Belgium

SECONDARY STUDIES

SKILLS

PROGRAMMING Java, Python, C, Arduino

EMBEDDED AVR, nRF24LE1, Arduino
Altium Designer

WEB HTML, CSS, JavaScript

DATABASES MySQL, SQLite

OS Linux, macOS, Windows

SERVER AWS, Debian, Docker

TOOLS Git

OTHER Networks, Data Structures, LaTeX

COMMUNICATION SKILLS

FRENCH Native speaker and writer

ENGLISH Fluent speaker and writer