



Charlier Maximilien

PhD Student in Computer Science

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Professional experiences

UMONS, FRIA-FNRS, PhD Student

17-18

PhD Student in Computer Sciences, in the Networking and Telecommunications Lab. Research about the conception of an indoor tracking system using ultra wideband (UWB) in large areas (such as museums, warehouses) and in high density (with a lot of moving objects).

FEDER - IDEES, Research assistant

2017

Research about RPL, an IPv6 Routing protocol for Low-Power and Lossy Networks (LLN). We have focused on linear topology in Wireless Sensor Networks (WSNs).

Printemps des Sciences, Student job

2017

I have presented a localization system based on ultra wideband (a wireless technology) and the time of flight. This system was developed during my master thesis. I also presented some industrial usages of indoor localization and how work the GPS.

Numeca International, Internship

2016

Numeca Intl is active in the Computational Fluid Dynamics field. My internship consisted in a comparison of two 3D rendering libraries. During my stay, I developed a prototype for scientific visualization in Qt3D using C++ and the Qt framework. I also developed GLSL shaders.

UMONS, Student job

15-17

Student for the catering service and the restaurant of the University of Mons.

UMONS, Student Assistant

15-17

Help students in practical sessions, these sessions cover the development on a prototyping platform using assembly language (MIPS) and C. These practical sessions also introduced some concepts like Timer, Interrupt, and the use of a library.

UMONS, Student job

15-16

Welcoming participants to conferences of the Extension department of the University of Mons.

VDH Photo, Student job

15-16

Expert advisor at the Imaging Days a photo show for the VDH Photo stand.

BNB, Student job

2012

Maintenance service of the National Bank of Belgium.

BNB, Student job

2011

Responsible for the exchange of currency to the Central Cash Office of the National Bank of Belgium.

Education

2017 University of Mons

Master in Computer Science

Obtained with great distinction
Reward of the best master thesis in Computer Sciences

2015 University of Mons

Bachelor in Computer Science

Obtained with distinction

2012 Athénée Royal de Mons 1

Complementary year in mathematics

2011 Certificate of higher secondary education (CESS)

Publications

Charlier M., Quoitin B., Bette S. & Eliasson J. (2016, November). **Support for IEEE 802.15.4 ultra wideband communications in the Contiki operating system.** In *Communications and Vehicular Technologies (SCVT)*, 2016 Symposium on (pp. 1-6). IEEE.

Skills

OOP: Python Java C++ Framework Qt

3D: Qt3D OpenGL GLSL

Procedural: C

WEB: PHP HTML5 CSS3 JavaScript

Databases: MySQL XML XSLT XQUERY

Operating System: Linux Windows Contiki

Version Control System: Git

Writing: LaTeX Office Suite

Photography: Photoshop Lightroom

Other: Bash Android

Languages

French (Mother tongue)

English

Reading: Good

Writing: Scientific

Speaking: Simple

Dutch (Notions)

Hobbies

!!!! Programming

📷 Photography

🔧 DIY

★ Astronomy

Web version

<https://maximilien-charlier.be/cv/>

