



Olivier DEBAUCHE

Computer Science Engineer & Agronomic Engineer.

Specialized in Cloud Architecture Design for IoT and Smart Farming Applications.

He is currently a teaching and research assistant at the Department of Computer Science of the University of Mons (Belgium). He holds a PhD in Engineering Sciences and Technology and a PhD in Agricultural Sciences and Biological Engineering. He is doing research in computer engineering within projects related to the IoT & Cloud-IoT domain and more specifically to Smart Farming.

General information

Nationalité: Belgian

Status: Married

Driver license: European B

Dependant: 1 child

Date of birth: 12/02/1978

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LinkedIn: olivierdebauche

Github: Smartappli

Skills

Internet of Things

Web Technologies & Design

Geographic information system

Software Design & Development

Cloud Architectures

Databases

Hydrology

Data Analytics

Education

University Certificate in Artificial Intelligence (Hands on AI)

Faculty of Engineering / Faculty of Sciences - University of Mons (Belgium)
2018 – 2019

Harmonised Amateur Radio Examination Certificate (HAREC)

IBPT (Belgium)
2017

Ph.D. in Engineering Sciences And Technology

Faculty of Engineering - University of Mons (Belgium)
2016 – 2022

Ph.D. in Agronomic Sciences and Biological Engineering

Gembloux Ago-Bio Tech - University of Liège (Belgium)
2016 – 2022

Master Degree in Computer Sciences Faculty of Engineering

University of Mons (Belgium)
2013 – 2016

Advanced Master in Agronomic Sciences and Biological Engineering

Gembloux Ago-Bio Tech - University of Liège (Belgium)
2003 – 2004

Master Degree in Bioengineer specialized in rural engineering

Gembloux University Faculty of Agricultural Sciences (Belgium)
1999 – 2002

Bachelor Degree In Agronomic Sciences and Biological Engineering

Faculty of agronomic sciences of Gembloux (Belgium)
1996 - 1999

Experience

Teaching and Research Assistant

Faculty of Engineering - University of Mons (Belgium) -

15/09/2016 - 14/09/2022 (Full-time)

Computer Software and Artificial Intelligence Unit (ILIA)

- Practical work in C++ (BAB1, BAB2, IG Cha), Internet of Things MAB1 and MAB2 Ing Architect, Mobile applications for content exploitation (BAB3 IG, IG Cha), Software Development Tool (MAB1 IG, IG Cha), JAVA (BAB3 IG), Object-oriented software modeling (BAB3 IG, BAB3 FS, IG Cha),
- Co-writing of Internet of Things, Mobile applications for content exploitation, Object-oriented software modeling protocols
- Co-writing of Wallesmart (PTR), Roadstep (PTR), Cow cloud (PTR), Mssf (PTR), Autopèse (Win2Wal) projects
- Supervision of student projects in the framework of digital and software expertise courses, mobile applications for content exploitation
- Co-promotion of final year projects and internships
- Completion of a joint doctoral thesis (UMONS-ULiège)

Research Engineer

Gembloux Agro-Bio Tech - University of Liège (Belgium)

01/10/2010 - 11/09/2016 (Full-time)

Epuvaleur APE

Curriculum vitae – Olivier DEBAUCHE – 07/08/2022

- SPW / DGO3 - AGIRaCAD research agreement
- SPW / DGO3 - Atlas of the contours of the catchment areas of the Walloon region
- Development of a watershed management methodology. Applications to different case studies
- Conception, design and assembly of an experimental spray bench
- Co-promotion of final year projects
- Co-writing of a research projects

Research Engineer

Gembloux Agro-Bio Tech - University of Liège (Belgium)

03/02/2005 - 30/09/2010 (Half-time)

Epuvaleau APE

- European project Asialink
- Contribution to the design and writing of the application files for the approval of Epuval filters (horizontal lagoon treatment).
- Co-promotion of final year projects

PhD Student

Gembloux Agro-Bio Tech - University of Liège (Belgium)

01/10/2010 - 30/06/2014 (Part-time)

Hydrology and Agricultural Hydraulics Unit

PhD Student

Gembloux Agro-Bio Tech - University of Liège (Belgium)

01/01/2008 - 30/09/2010 (Half-time)

Hydrology and Agricultural Hydraulics Unit

Research Assistant

Faculty of Agronomic Sciences of Gembloux (Belgium)

15/02/2005 - 31/12/2007 (Half-time)

Hydrology and Agricultural Hydraulics Unit

- Development of a hydrological model for small ungauged watersheds of less than 2km².
- Modelling of peak flows of rivers in the Walloon region for rainfall of exceptional return period.

Research Assistant

Faculty of Agronomic Sciences of Gembloux (Belgium)

01/02/2004 - 31/01/2005 (Full-time)

Hydrology and Agricultural Hydraulics Unit

- Development of a hydrological model for small ungauged watersheds of less than 2km².

Fellow Student (Diploma of Advanced Studies in Agricultural Sciences and Biological Engineering)

Faculty of Agronomic Sciences of Gembloux (Belgium)

01/07/2003 - 31/01/2004 (Full-time)

Hydrology and Agricultural Hydraulics Unit

- Development of a hydrological model for small ungauged watersheds of less than 2km².

Research Assistant

Faculty of Agronomic Sciences of Gembloux (Belgium)

01/10/2002 - 30/06/2003 (Full-time)

Unit of fluid mechanics and topography

- Development of an application to help fill out applications for class 1 and 2 environmental permits.

Languages

French : Native

English : Good level

Dutch : Good Level

Arabic : Elementary

Hobby

Ham Radio

