Gabriel Urbain

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LANGUAGES

French Native

English

Fluent. TOEIC LR: 940/990 (2011). TOEFL IBT: 105/120 (2014)

Dutch

Basic

Spanish

Basic

SKILLS

IT

Operating Systems

Linux • Embedded Linux • Windows

Programming

C • C++ • Matlab • Simulink • Pvthon • Java • Bash • VHDL

• OpenCV • Git • LATEX

Embedded Platforms

X86 • Atmel AVR • TI OMAP3 • Arduino • BeagleBone

TECHNICAL

Telecommunications •
Computer Vision • Robotics •
Space Systems

HOBBIES

Campus Activities

Sailing (2014) • CubeSat (2012-2014) • Scuba Diving (2013-2014) • Rowing (2013)

• Winner of a GDF Suez scholarship (2012) • Student Regional Committee

(2009-2012) • Board of Faculty (2011-2012) •

Auto-evaluation Commission (2011-2012) • Board of Libraries (2010-2011)

Arts

Supaero Jazz Band (2012-2014) • Student Culture Committee (2010-2011) • Jazz Band Baudour (2001-2011) • Drums • Trumpet • Piano

EXPERIENCE

UMONS | RESEARCHER AT THE NUMEDIART INSTITUTE

Since February 2015 | Mons, Belgium

Topic: Search engine development based on audio similarities for big data collections of a Foley company

ROBOTICS

2004 - 2015 | Mons, Belgium

- Administrator of the Non-Profit Association iRobotique (2014, 2015)
- Robot design for a Eurobot Junior competitions (2005, 2006, 2008) and Eurobot (2011, 2013)
- Creativity Award (2006), Belgian Junior Champions Award (2008), 8th European Junior position (2008); 7th European position (2013)
- Atmel AVR, OMAP processor and FPGA Programming Classes (2010-2012)

THALES ALENIA SPACE | RESEARCH AND INNOVATION INTERNSHIP

August - September 2013 | Charleroi, Belgium

Topic: Feasibility Analysis of an Electro-Mechanical Control System for Ariane Rocket Boosters. Supervisor: Prof. Dr. Marc Bekemans.

UMONS | FACULTÉ POLYTECHNIQUE | RESEARCH INITIATION

July - August 2010 and July - August 2011 | Mons, Belgium

- Topic: Implementation of C/C++ Libraries in TRNSYS 16.1 for Heat Pump Study. Supervisor: R. Lepore. Energy Cluster (2010)
- Topic: Semi-Automatic Creation of a 3D Model for the City of Mons. Supervisor: Prof. Dr. T. Dutoit. IT Cluster (2011)

FDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FINAL MASTER PROJECT AT THE SPACE SYSTEMS LABORATORY

June 2014 - November 2014 | Cambridge, USA

Topic: Calibration and Fusion of Stereoscopic and Time-of-Flight Cameras for Zero Gravity Targets Inspection. Supervisor: Dr. Alvar Saenz-Otero. Passed with the highest mention.

ISAE | SUPAERO

MASTER OF SCIENCE IN AEROSPACE ENGINEERING

August 2012 - November 2014 | Toulouse, France

Double Master Degree trough *T.I.M.E.* Network. Major: Space Systems, Telecommunications and Networks.

UMONS | FACULTÉ POLYTECHNIQUE

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

September 2011 – November 2014 | Mons, Belgium

Option: Electricity - Multimedia et Telecommunications. Graduated with Honors.

BACHELOR OF SCIENCE IN ENGINEERING

September 2008 – June 2011 | Mons, Belgium

Graduated with Honors.

PUBLICATIONS

INSPECT Sensor Suite for On-Orbit Inspection and Characterization with Extravehicular Activity Spacecraft. A. Saenz-Otero, D. Steinberg, T. Sheerin, G. Urbain. In: 45th International Conference on Environmental Systems. 2015 (expected)