JOHAN HARDY
Industrial Engineer
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EDUCATION

2009 : Master in Engineering Science (Graduated with high honors) - Gramme Institute, Liège, Belgium.
Section : Industrial Science / Industry.

2003 : Secondary School Certificate - Collège Saint Joseph, Liège, Belgium.
Orientation : Latin, Mathematics, English and Dutch.

WORK HISTORY

2009 - today : Spacebel S.A. - Software Engineer.

2009 : Internship at Montefiore Institute (Department of Electrical Engineering and Computer Science, University of Liège).
Master thesis : Implementation of the AX.25 protocol aboard the nanosatellite OUFTI-1 (http://www.oufti.ulg.ac.be).

2006 : Social and technical trainee at the National Railway Company of Belgium (SNCB), Atelier de traction Kinkempois (maintenance of rolling stock), Liège, Belgium.

LANGUAGES

- **French** (Mother language).

- **English** – Reading, writing and speaking : advanced.

- **Dutch** – Reading, writing and speaking : school knowledge.

COMPUTER SKILLS

Microsoft Office Suite, Telelogic Rhapsody, Eclipse, Papyrus, Jenkins CI, svn, git, Trac, Redmine, VMware, Klocwork.
C/C++, Java, Tcl/Tk, Python, OCL, UML, Acceleo, EMF, Xtext, Xtend, Ruby, markup languages, Mocking.
Solidworks, MatLab, SimuLink, Siemens automation.
Sparc LEON2, LEON3, LEON4, PowerPC, Core8051.
Serial, LAN, MIL-1553, PCI, PUS, CCSDS.
Unix Systems, vxworks, rtems, xtratum.
Eclipse Plug-in development, Oomph, Maven.

ADDITIONAL TRAINING

2013 : Eclipse Modeling by Olivier Provoust at Spacebel, Liège, Belgium

2012 : Xtratum seminar by FentISS at Spacebel, Liège, Belgium

2012 : Topcased le résumé at Atos, Paris, France

2011 : TargetLink basics for code generation and production in space industry at dSpace, Paris, France

2008 : Seminar Espace Horizon Qualité organized by Entreprise & Qualité ASBL at Technifutur, Sart-Tilman, Belgium.

MISCELLANEOUS

Belgian nationality.
Date of birth: 13rd november 1985 (Liège).
Marital status: single.
Driving licence owner (since 2004).
Hobbies: soccer, spinning, mountain bike, cinema, music, computer science, electronics, news and politics.

PROFESSIONAL EXPERIENCE

2009 – today : Spacebel S.A. - Software Engineer.
- Development and test of PROBA-3 formation flying software
- Design and deployment of PROBA-3 Unit Test framework
- deployment of Spacebel Continuous Integration System
- Design and deployment of Spacebel Software Development Environment
- Maintenance of PROBA-2 flight software
- Symmetric Multi-Processing of PROBA-2 flight software
- Radio Frequency Interference of VNREDSAT-1B - Preliminary study
- Time and space partitioning of PROBA-2 Flight Software
- In-flight hosting of prototype application
- TARANIS boot software, definition and deployment of the complete validation test bench
- TARANIS boot software, involved from proposal, architecture, design to validation tests
- Software Validation Facility architecture of Lunar Lander (phase B)
- Assessment and acceptance of model based development tools in the scope of a high integrity autonomous rendez-vous and docking control system for ORCSAT study
- Operational tests of PROBA-V OBSW
- Refactoring of Graphical User Interface of Vega OBC Simulator
- Validation of Vegetation Instrument Manager of PROBA-V
- Simulation of Mass Memory Unit of PROBA-V
- Simulation of Vegetation Instrument of PROBA-V
- Coding & testing of Mass Memory drivers of PROBA-V OBSW
- Support, maintenance, integration, validation & qualification of Expert OBSW
- Coding & testing of Power Conditioning and Distribution Unit of Expert OBSW
- Coding & testing of the Timeline Generator and Post Flight Analysis tools of Expert mission
- Coding of the Functional Validation Facility of Expert (European EXPErimental Re-entry Test-bed)

ARTICLES

2014 : J. Hardy, T. Laroche, P. Creten, P. Parisis, M. Hiller - Experimenting maintenance of flight software in an integrated modular avionics for space.

ECLIPSE FOUNDATION

2015 : Eclipse umlgen project: Initial Contributor of the UML to Embedded C Generator.
2014 : Eclipse Committer.