JOHAN HARDY
Industrial Engineer

Avenue des thermes 72B/2,
4050 Chaudfontaine (Belgium).
+32497197025 − hardy.johan@gmail.com

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 (advanced)
Dutch (basic)

COMPUTER SKILLS

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

ADDITIONAL TRAINING

2017 : Project Management (PMI/Prince), Bruxelles, Belgium

2016 : Spacecraft Techniques and Technology CNES, Toulouse, France

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: married.
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 design of Euclid Central Application Software
- Development and design of Euclid flight software configuration database
- Development and test of PROBA-3 flight 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)

PUBLICATIONS

2017 : Bits and Chips, Vluchtsoftware: van commerciële ontwikkeltooling naar opensource
2016 : CEA, Eclipse Papyrus Case Study Series - Spacebel.
2015 : J. Hardy, A. Bourdoux, D. Torette, P. Parisis, G. Campos Garrido - From napkin sketches to flight software.
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

2017 : Project Leader of the Open Source project Eclipse UML Generators.
2015 : Eclipse umlgen project: Author of the UML to Embedded C Generator.
2014 : Eclipse Committer.