JOHAN HARDY

Project Manager

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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

2020 - Today : Spacebel S.A. - Project Manager.

2017 - 2020 : Spacebel S.A. - Senior Software Engineer / Technical leader.

2009 - 2017 : 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 (B2/C1 - Advanced)

Dutch (A1 - Basic)

COMPUTER SKILLS

Microsoft Office, Eclipse, Papyrus, Jenkins CI, svn, git, GitLab, 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.

Marital status: married.

Driving licence owner (2004).

Military Clearance Owner (valid until Nov. 2025)

Hobbies: soccer, mountain bike, cinema, music, computer science, electronics, news and politics.

PROFESSIONAL EXPERIENCE

2020 - Today : Spacebel S.A. - Project Manager
  - Project Management and technical leader of the On-Board Software of In Orbit Demonstrator (IOD)
  - Project Management ad interim of HERA Central Software
  - Project Management and technical leader of the On-Board Software of ALTIUS

2017 - 2020 : Spacebel S.A. - Senior Software Engineer / Technical leader
  - Technical leader of Euclid Central Application Software
  - Development and design of Euclid Central Application Software

2009 – 2017 : Spacebel S.A. - Software Engineer
  - 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 (R&D)
  - 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 commerciale 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.