

Dr Ir Benoît Bidaine
Project manager
Simulation and/or aerospace fields

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Born on January 7th, 1983 (32 years old), Belgian
Married, 2 children (1 and 4 years old)
Driving License B



PROFILE

Research and industrial experience in the *automotive and aerospace fields* (material and structural modelling, finite elements, satellite navigation, Galileo, ionospheric effects), teaching of *least squares adjustments, international collaborations*, experience with *simulation/CAE tools* and *high accuracy GNSS technologies*

Leader and manager of several non-profit organisations, involvement in academic bodies (executive board, quality assessment steering committee)

Strong *analytical mind*, professional *communication skills*, *team player*

Management	Project management, team and meeting management, change management
Functional	Modelling and simulation, performance assessment, written and oral effective communication, problem solving, technology watch, knowledge transfer
Technical	Frequent and easy use of a computer and standard software (Microsoft Office): use of various operating systems (Windows, Mac OS, Linux); notions of various languages and software tools including C++, CAE, Matlab, Python, web, graphics

EXPERIENCE

- 2015 – ... *Software Solution Analyst, e-Xstream engineering* – www.e-xstream.com, Louvain-la-Neuve (MSC Software company since September 2012)
- Research & development related to Digimat, the nonlinear multi-scale material modeling software suite (composite materials and structures), from product requirement definition to customer validation
- Project leadership on fatigue: work package responsibility within DURAFIP, 4-year publicly funded project involving 14 partners (e.g., Solvay, TrelleborgVibracoustic, Arts et Métiers ParisTech or PSA; cf. [Modelling fatigue](#), International Innovation, Issue 156, pp. 87-89, 2014)
- 2011 – 2014 *Project Engineer, e-Xstream engineering* – www.e-xstream.com, Louvain-la-Neuve (MSC Software company since September 2012)
- Customer and engineering services related to Digimat, the multi-scale material modeling software suite (composite materials and structures): support, training, presales, collaborative R&D projects, consulting, software quality assurance
- Projects about material and structural performances (e.g. stiffness, failure, creep or fatigue) for various companies (e.g., Airbus, Alenia, BMW or General Motors), regular business trips (Europe, Asia and USA), practice of various software (e.g., Abaqus, ANSYS, HyperWorks or MSC Nastran)

- Project leadership on continuous fiber composites (including definition of product requirements and specifications for software dedicated to virtual determination of design allowables – U.S. patent pending) and fatigue
- 2006 – 2011 *Researcher, University of Liège (Geomatics Unit) – ULg – www.geo.ulg.ac.be, Fund for Scientific Research – FNRS – www.fnrs.be, Liège*
- Research about ionospheric effects on satellite navigation: experience with various data and positioning techniques, active contribution to numerous international conferences, collaborations with international scientists, installation of high-accuracy receivers (Septentrio PolaRx3eG) in the framework of the SWANS project (Space Weather And Navigation Systems)
- Publications (19) and communications (6) on <http://orbi.ulg.ac.be/simple-search?query=bidaine>
- Participation to the ESA International Summer School on Global Navigation Satellite Systems 2010 (www.munich-satellite-navigation-summerschool.org) – Winner of the Student Competition
- 2006 – 2011 *Teaching assistant, ULg (Geomatics), Liège*
- Geomatics students training: exercises in the courses of geodesy, error theory, GNSS and applied topography; supervision of master theses and participation to the geomatics integrated project
- 2007 – 2011 *Founder and coordinator, Réseau des Doctorants de l'ULg – ReD – www.red.ulg.ac.be (PhD students network of the ULg), Liège*
- Organisation of events and participation to thinking processes about the PhD at ULg
- Parallel involvement in scientific staff representation (e.g. Sciences Faculty Council and steering committee of European institutional evaluation)
- 2006 (Feb – Jun) *Stagiaire, European Space Agency – ESA – www.esa.int, Noordwijk (The Netherlands)*
- Detailed analysis of the ionospheric model NeQuick chosen to evaluate the ionospheric contribution in the correction provided to Galileo single frequency users, testing and validation of the NeQuick implementation in the Galileo satellite constellation RF signal simulator GSVFv2
- 2001 – 2006 *President and other positions, Association royale des Elèves des Ecoles Spéciales asbl – AEES – www.aees.be (civil engineering and informatics students association of the ULg), Liège*
- Project, team and meeting management, activities organisation and contact with the academic authorities
- Parallel involvement in students representation (e.g. ULg executive board)

EDUCATION

- 2006 – 2012 *PhD in Sciences – ULg*
Research about the ionospheric error correction algorithm for Galileo single frequency users (European navigation satellite system)
[Finalist of outreach contest “Ma thèse en 180 secondes”](#) at ULg in 2013
- 2006 – 2007 *Post-graduate diploma (DEA) in Sciences – ULg*
Greatest honour – Teaching in upper atmosphere and space physics, satellite navigation and geomatics project (learning of surveying techniques)
- 2001 – 2006 *Physics engineering – Field of space techniques – ULg*
Great honour – Many practical projects, for instance numerical analysis (study of partial differential equations systems in C language), space research in astrophysics and management (short study of AMOS company) – Finalist position at the ODISSEA Prize 2006 awarded by the Belgian Senate

LANGUAGES

- French Mother tongue
- English Fluent – Numerous trips abroad
- Dutch Good knowledge to reactivate – Last year of primary school in Flanders
- German Notions – Two years evening classes at ULg
- Spanish Notions – Three months intensive evening classes at ULg

LEISURE

- 1987 – ... *Musician* (mainly violin) – Member of several celtic and folk groups

More on be.linkedin.com/in/bbidaine