

Michaël Beghain

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Senior Project Engineer Profile

Result-oriented professional with proven expertise in applying testing methodologies and tools to verify functionality of hardware and software in accordance with project timeframes and quality standards. Adept in conducting frequent assessments into current processing to facilitate proactive identification of risks, issues, and challenges. Expert in cultivating and maintaining effective and productive relationships with team members, clients, and relevant stakeholders.

Technical Proficiencies

Hardware:	PC mountings (Motherboard, CPU, RAM, IDE and SATA drives...), XJTAG, Electronic Components FPGA (Altera, Xilinx), CPLD, SMD, µControllers
Languages:	VHDL, ABEL, Turbo Pascal, Visual Basic, C, C++, SQL, Scripting, Python, Cobol
Bus, Protocols:	CAN, RS232, RS422, RS485, Wireless Technologies (Bluetooth, WiFi, GPS)
OS:	Windows Mobile, Android, Windows, OpenVMS, Linux (≠ distri), Unix and Configurations.
Tools:	Eclipse, MS-Office, Visio, Visual Studio, Autocad, Mathcad, Matlab, Micro Cap, Altium DXP, Active HDL, Cypress, Splan, Catia V5, Labview
ERTMS Technologies:	Rolling Stocks and Tracksides
Telecom:	OSP (Open Services Platform) 2.3 & 2.4

Career Experience

THALES, Tubize, BE Test Engineer

1/2021 – now

As IVV / Test Engineer part of the LAND engineering group of THALES Belgium, main contributor to the test and retro-engineering platforms for C4ISR solutions (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance). Design test solutions, perform qualification & development testing and resolve technical issues.

- Analyze Input Requirements & architecture, create tests sequences and propose test equipment with SW tools to reach good completion of tests sequences
- Design & develop tests scripts

Be Tech Consulting, BE Project Engineer

8/2020 – 12/2020

Pioneer thorough research and development for human sized robot, 3D printing in different materials, designing in Solidworks, hardware design/custo, simulation, AI, soft program, testing, Servo use, managing subcontractors, cost responsibility, and debugging/solving any problems that arise.

- Coordinate realization of human-sized robot to enable accomplishment of similar or greater human performance.

ATOS Worldline, Haaren, BE Quality Engineer, Production Team

2/2020 – 8/2020

Utilised exceptional organisational, critical thinking, analytical, and problem-solving skills to ensure successful completion of all quality testing according to set timeframe, scope, and budget. Improved efficiency and boosted productivity through development and maintenance of solid relationships with team members. Coordinated in-depth quality checks in order to enable proactive exploration of existing/potential risks and issues on terminals.

- Led manoeuvres to find and execute measures to mitigate any risks and prevent recurrences.
- Established and maintained open/clear communication with team members to provide timely updates.
- Increased output terminal quality at European production site by 30% in six months.

ATOS Worldline, Haaren, BE**2/2018 – 1/2020**

Quality Support Engineer, Repair Competence Centre Team

Oversaw coordination of end-to-end quality analysis for electronic payment terminals to safeguard strict compliance with expected quality standards, company objectives, and end-user requirements. Applied continued collaboration with team members to improve efficiency and increase productivity. Conducted in-depth evaluations into current business processes to identify challenges and gaps and spearheaded development/implementation of solution strategies.

- Provided continuous support to subcontractor companies to accelerate processes and debug terminals hardware and software.
- Achieved measurable quality improvements in new and repaired terminals, as well as overall production processes at main European site.
- Drove training sessions in accordance with specific project requirements.
- Accomplished and surpassed department KPIs by 20% for 10 consecutive months.

Mastercard, Waver, BE**4/2016 – 12/2017**

Implementation Engineer, Customer Implementation Services Team

Played pivotal role in contributing to all phases of design, testing, and debugging. Oversaw risk analysis in order to identify and troubleshoot problems with efficacy of execution. Undertook thorough analyse of data and identified potential processing errors.

- Carried out validation of transactions using offline/online simulators and generator tools at clearing and authorization levels, offline, and online on dual messages systems in Russia and Europe.
- Delivered improvements to transaction validation tools/transaction services which reduce timeframe by 25%.

ATOS Worldline, Haaren, BE**12/2015 – 2/2016**

Testing Engineer, TCC Team

Conducted thorough testing and debugging of back-office transaction processing to ensure accuracy and improve customer transaction validation tool use. Steered in-depth tests in order to identify and fix any technical issues. Managed back office transaction testing tasks, updated project descriptions, redacted official documents, and prepared support documentation.

- Demonstrated skills in various tools, including SQL Developer, HP ALM, and CASPER used on different environments such as Windows, OpenVMS, and Linux.

ATOS Worldline, Haaren, BE**10/2012 – 11/2015**

Project Engineer, Embedded Systems Team

Managed end-to-end operations for complex projects from start to finish by closely monitoring all endeavours, tracking progress to identify challenges, mitigate existing risks, and prevent potential threats. Headed testing, installation, and debugging to assure timely and accurate delivery.

- Performed functional tests of terminals and hardware (mainboards) using JTAG tests and test tools for terminal functional tests.
- Increased customer satisfaction levels through proactive identification and fixing of program and test equipment bugs.

CMI Defence, Loncin, BE**3/2012 – 8/2012**

Project Engineer, Electronic Engineering Department

Piloted development and application of numerous projects to debug and troubleshoot electric, electronic, and mechanical issues. Created official supporting documentation for customers to provide all relevant information directly related to services details. Established close interaction and cooperation with customers and team members to accelerate delivery of services.

- Designed and coordinated different tests in electronic embedded systems.
- Contributed in processes to identify and fix short-range missile automatic arming system bugs in order boost customer satisfaction levels.

ALSTOM Transport, Charleroi, BE
Validation Engineer, Integration & Validation TIS Team

5/2011 – 11/2011

Undertook regular inspections to uncover issues in order to design and execute troubleshooting methods and measures to prevent recurrences. Calibrated, managed, tested, and modified instrumentation, equipment, mechanics and procedures used to manufacture various products. Monitored functionality and efficiency of all systems to assure production of high-quality products.

- Applied training experience and expertise in ERTMS technologies to fix issues in wide range of subsystems in rolling stocks testing.
- Completed integration and validation of train EVC parameters for two projects VIVA and RAILCORP in line with customer requirements.

Freelancer, USA
Project Engineer

11/2009 – 05/2011

Conducted multiple personal and long-term operations on different security camera systems in line with details and requirements on customer briefs. Applied great communication and interpersonal skills to build solid relationships with clients to align service delivery with individual customer specific requirements.

- Headed performance of hard and soft repairs on various mobile phones, computers, and applications and development/testing of Android OS.

Alcatel-Lucent, Namur, BE
Project Engineer, KPN Team

2/2008 – 11/2009

Developed project objectives by reviewing proposals and plans and conferring with management in order to initiate testing and installation of releases related to I-mode, rating, and services. Determined specifications by studying product design, customer requirements, and performance standards to complete technical studies and prepare cost estimates.

- Managed and trained team members to ensure services provided complied with company objectives, client needs, best practices, quality standards, and regulatory policies.

CETIC, Gosselies, BE
Research Engineer, Embedded Systems Team

12/2006 – 2/2008

Embedded systems services on various wireless technologies, including BT, GPS, and Wifi. Steered software development, Linux, and FPGA programmed in C. Improved existing technical processes, machines, and systems in order to create new and innovative technologies.

- Drove prototype realization to eliminate misunderstandings and miscommunications during project development process.

Education

CAP (Teaching in Secondary School) – 2006
IRAM

Civil Engineering in Electricity, Automatic – 2006
FPMS (MONS)

Industrial Engineering in Electricity and Electronic – 2003
ISICht in Charleroi

Professional Training

IELTS language test in English

PRINCE 2 Certifications Foundation & Practitioner

BA5 Qualification, Alstom

ERTMS training, Alstom

OSP 2.4 Intelligent Networks Training, Alcatel-Lucent

Languages

French, Native

English, Fluent

German, Intermediate

Russian, Intermediate