**Competence profile**

**Mr Nicolas Denis Patrice GROSJEAN**

Education (highest degree)

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| * Consultant * Worksite : Germany - München * Mobile : yes * Availability : 01 / 07 / 2020 * Nationnality : French * Date of Birth : 26 / 11 / 1969 | * Object Oriented Development * Software Architect * Integration, test & validation * Management * Analysis * Technical analysis * Research, Innovation & Watch * Tools: C++, Linux, VIM, Cmake, G++, Git, SimSound Bruel & Kjaer, JIRA, Object-Oriented Programming, Valgrind, Software Quality, Apple, Agile Scrum, Python, Enterprise Architecture, JSON - parser, template, libraries, GDB... * Language: French (Mother Tongue), English (C1), German (B1) |

1. Professional career / practical experience

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| ▼ | **MAGNA, München** |
| 09/2019  bis  06/2020 | Software Architect / Lead Software Developer  **MAGNA** - **Germany**  ***Automotive suppliers - Active safety & Driver assistance systems***  **Creation of MDF4 reader and interpreter software. The ASAM MDF (Measurement Data Format) is a binary file format for recording e.g. CAN, CAN FD and LIN bus data. Today, MDF4 is the industry standard - ensuring interoperability across many CAN tools.**   * Software Architecture : multiple executable with a common library * Quality Management * Performance Improvement (Memory leaks, optimisation) * Software development * C++, Object Oriented, Linux, Valgrind, mdf4 files |

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| ▼ | **BMW, Munich** |
| 04/2017  bis  08/2019 | Lead Software Engineer, Software Management  **BMW PASSENGER CARS** - **Germany**  ***Automotive suppliers - Infotainment***  **Spider is the BMW driving simulation software. In the context of the development and update on this simulation software :**   * Design and complete update of the build and software dependency management tool (>400 Makefile converted to cmake) * Development of new functionality related to the synchronization of sound, image and vibration |

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| ▼ | **BMW, Munich** |
| 12/2015  bis  03/2017 | Software Engineer  **BMW PASSENGER CARS** - **Germany**  ***Automotive suppliers - Infotainment***  **The BMW Device Manager software manages the devices connected (via usb, wifi…) to the car**   * Module Requirement, coding and testing (usb / wifi), * Create USB bus simulator (libusb, UDisk2), * Manage BMW CommAPI Interface, * Teaching to the team the art of testing, * Test Implementation, * Coding and Decoding Wifi messages (apple, miramax...) |

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| ▼ | **BMW, Munich** |
| 04/2015  bis  11/2015 | Software Architect  **BMW** - **Germany**  ***Automotive suppliers - Electric/Electronic Architecture***  **BMW Camera system to replace mirrors**   * Define the software architecture, * Define the milestones, * Manage the requirement in a R&D environment, * Check the software quality (5 people), * Coding and Testing the module, * Bug Management, * Documentation. |

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| ▼ | **BMW, Munich** |
| 01/2015  bis  03/2015 | Software Tester  **BMW** - **Germany**  ***Automotive suppliers - Electric/Electronic Architecture***  **A Software with poor quality should be tested**   * Make drastic choice about the tools, * Test implementation, * Test Coverage management, * Bug Management, * Bug, test and requirement Documentation, |

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| ▼ | **BMW, Munich** |
| 11/2013  bis  12/2014 | Software Tester  **BMW** - **Germany**  ***Automotive suppliers - Electric/Electronic Architecture***  **From objects positions, this software compute the objects trajectories**   * Check of requirements (incomplete or contradictory) * Test plan * Test report |

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| ▼ | **BOSCH AUTOMOTIVE, Stuttgart** |
| 08/2013  bis  11/2013 | Software Integrator  **BOSCH AUTOMOTIVE** - **Germany**  ***Automotive suppliers - Electric/Electronic Architecture***  **Integration of incompatible libraries**   * integration of BMW library with Bosh Software. The Interface were incompatible. * very short delay (deadline has already passed!) * Report error and bug, * Interface adaptation, * Unit and Integration Test, * Interface with supplier. |

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| ▼ | **BMW, Munich** |
| 12/2011  bis  07/2013 | Software Architect  **BMW** - **Germany**  ***Automotive suppliers - Electric/Electronic Architecture***  **3d Top View System Software manage the vehicle surroundings : a virtual camera displays the car itself and the surroundings, helping the drivers to avoid obstacle (Driving Assistance System).**   * Software architect for the embedded software (model view architectural pattern), * CAN (Controller Area Network) library, * Development Multi Platform software, * Improving software quality, * Team support, * Improving team communication (web site), * Maintenance of Linux system, * Test-oriented development. |

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| ▼ | **Bombardier Transportation, UK** |
| 12/2011  bis  01/2012 | Software Maintenance  **BOMBARDIER** - **United Kingdom**  ***Infrastructure & Transport - IT & Corporate Network Services***   * Long term support for this embedded software (>10 years) * Support on location, |

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| ▼ | **HEINE OPTOTECHNIK, Herrsching** |
| 07/2010  bis  11/2011 | Software Architect  **HEINE OPTOTECHNIK** - **Germany**  ***Medical devices - IT & Corporate Network Services***  **HEINE Optotechnik creates a new generation of high tech medical instrument.**   * Software architect for the embedded software (model view architectural pattern), * State machine conception and development, * Conception and development of several functionalities, * Code documentation with doxygen, * Participation of wiki, * Maintenance of linux system. |

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| ▼ | **BOMBARDIER TRANSPORTATION, Crespin (FRANCE), VASTERAS (SWEDEN), Derby (UK)** |
| 08/2006  bis  03/2010 | Software Architect  **BOMBARDIER** - **France**  ***Infrastructure & Transport - IT & Corporate Network Services***  **IP Train NAT (Nouvelle Automotrice Transilien/Spacium 3.06) : Software Engineer.**   * Team coordinator for the development of the NAT HMI software embedded in trains, * Software design, coordination of several software, * Integrator for IHM Version, * Maintenance of linux, * PPC hardware validation, * Creation of a cooperative wiki on a server, in order to centralize the team knowledge. |

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| ▼ | **Bombardier TRANSPORTATION, Crespin (FRANCE),** |
| 2002  bis  2007 | Software Engineer  **BOMBARDIER** - **France**  ***Infrastructure & Transport - IT & Corporate Network Services***  **AGC (Automotrice Grande Capacité) represents an important SNCF project, which remains a reference for Bombardier.**   * I had been following this project from the very beginning. It evolved from design, hardware and environment selection, and mainly consists in customer support now. * Software design, development and integration. This software interface is the main reference for the HMI NAT project. * Supplier technical interface (Kontron Belgium) * Linux server administration |

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| ▼ | **Bombardier TRANSPORTATION, Crespin (FRANCE),** |
| 08/1999  bis  2005 | Software Engineer  **BOMBARDIER** - **France**  ***Infrastructure & Transport - IT & Corporate Network Services***  **“Virgin Train” class consists in a new generation of trains in United Kingdom, and will be quite a big step for the embedded software in general.**   * Design, development and tests of a HMI software embedded in trains. * HMI software development and integration. * Supplier technical interface (PEP / Kontron Belgium). |

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| ▼ | **Thomson CSF Airsys ATM, Bagneux,** |
| 01/1998  bis  07/1999 | Software Developer  **THOMSON CSF** - **France**  ***Infrastructure & Transport - Aircraft program***  **In the realm of air control, Thomson upgraded its software, incorporating a new generation of communication standard (ASTERIX) in partnership with EuroControl. This software was sold to several customers worldwide.**   * Design, development and tests of software. * Programming of the coding / decoding layer within flexible software. |

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| ▼ | **Thomson CSF, Bagneux,** |
| 08/1997  bis  01/1998 | Software Developer  **THOMSON CSF** - **France**  ***Infrastructure & Transport - Aircraft program***  **Development of a macro-generated software for the management of air traffic (Management of several parallel businesses), in order to cope with denser aircraft traffic.**   * Development and tests of software. |

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| ▼ | **Dassault Electronics, Saint-Quentin in Yvelines,** |
| 01/1997  bis  05/1997 | Software Validation  **DASSAULT ELECTRONIQUE** - **France**  ***Space - Software - Simulators & Validation Tools***  **Dassault had to cope with Deadline problems**   * Development and tests of software. |

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| ▼ | **Hoechst, Paris La Défense,** |
| 05/2016  bis  06/2018 | Project manager associate.  **HOECHST ROUSSEL** - **France**  ***Pharmaceuticals - IT & Corporate Network Services***  **Hoechst starts out-sourcing its internal IT support.**   * Test of new Software. * Drafting of procedures for software installations, as well as setting environments Windows (NT3.51, NT4.0, 95, 3.xx...) on PCs connected in network. * Installation of the network LOTUS Notes for the whole company. * Creation of quality indicators for the hot line. |

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| ▼ | **Caisse des dépôts et consignations, Issy les Moulineaux,** |
| 12/1996  bis  12/1996 | Financial data processing.  **CAISSE DES DEPOTS ET CONSIGNATIONS** - **France**  ***Banking - IT & Corporate Network Services***  **The Caisse des dépôts needed a software upgrade.**   * Development of financial software. |

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| ▼ | **NCR / Club Méditerranée, Paris,** |
| 06/1996  bis  11/1996 | Project manager associate.  **CLUB MED** - **France**  ***Public Sector - Consulting Services***  **The Club was moving its headquarters, bringing 600 new PCs at the new headquarters.**   * Management of the project under MS Project (50 people, 300 tasks). * Safeguard, then migration of the data, * Software standardization. |

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| ▼ | **Dassault Electronics, Saint Quentin in Yvelines** |
| 01/1995  bis  05/1996 | Analyst and software engineer.  **DASSAULT ELECTRONIQUE** - **France**  ***Defense - Command, Control & Information Systems***  **Embedded software development for a French fighter, within a team of 50 engineers.**   * Management of various data-processing tools according to an object-oriented software development. The program exceeded one million lines. |

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| ▼ | **Direction des constructions navales, Paris.** |
| 09/1993  bis  08/1994 | Nuclear Safety  **DIRECTION DES CONSTRUCTIONS NAVALES (DCN)** - **France**  ***Defense - Nuclear System Safety***  **Safety studies for the carrier the "Charles of Gaulle". Updating the file of the safety options concerning the services ensured by the ship to the two nuclear boilers.** |

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| ▼ | **Laboratoire d'Océanographie Dynamique et de Courantologie (LODYC), Paris.** |
| 03/1993  bis  06/1993 | Scientific Engineer.  **CNRS** - **France**  ***Electronics - Software***  **Analysis and comparison of *in situ* data regarding the Tropical Atlantic's long waves, in accordance with a digital model of general oceanographic flowing, providing therefore a scientific expedition with fundamental source documents.** |

1. Education and training

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| ▼ | **Studium** |
| 1993 | Engineering school - Physical Oceanography - ENSTA Paris Tech  ENSTA is the military school for weapons engineers.  **Paris - France** |

1. IT skills, tools and methodology

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| ▼ | **Tools / Level (Basic, Advanced, Expert)** |
| Product & Services | Connectivity – Communication (Basic), Wifi (Basic), Software (Expert), Safety(Basic),, Embedded Systems (Expert), Digital Camera (Basic), Architecture (Advanced), Test & Validation (Expert) |
| Specialties | Financial, banking & insurance, Custom application, TEST |
| Technologies, Software & Tools | C++ (Expert), Linux (Expert), VIM (Expert), Cmake (Expert), G++ (Expert), Git (Advanced), SimSound Bruel & Kjaer, Python, JIRA (Advanced), Object-Oriented Programming (Expert), Valgrind (Expert), Software Quality (Expert), Apple, Langage C++ (Expert), Enterprise Architecture (Advanced), JSON – parser (Advanced), GDB (Advanced) |
| Other | Cppcheck (Expert), mdf4 file (Advanced), usb (Basic) |

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| ▼ | **Methoden / Level (Basic, Advanced, Expert)** |
| PM | Agile Software Development (Advanced), SCRUM (Advanced), V-Cycle (Advanced) |

1. Languages

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| ▼ | **Sprachkenntnisse** |
| DEU | Intermediate |
| ENG | Fluent |
| FRA | Mother Tongue |

1. Your contact

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