Curriculum Vitae

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| Name | |  | | Nicolas Grosjean | |
| Function | |  | | Senior Software Engineer | |
| Main Focus | |  | | As a software architect working in the field of embedded systems (medical equipment, car, train, plane, satellite, ...) for more than 30 years, I am enthusiastic about designing, developing, integrating, testing and maintaining high quality complex systems. | |
| Education and Employment | | | | | |
| Since 08/1999 | |  | | | Capgemini Paris - Bruxelles - Munich |
| 09/1994 – 08/1999 | |  | | | Software Developer at SDI, Paris |
| 1993 | |  | | | Engineering school - Physical Oceanography - ENSTA Paris Tech. ENSTA is the military school for weapons engineers.  Paris - France |
| Computer Science Knowledge | | | | | |
| Methods | |  | | | OOD, UML, Scrumm |
| Operating Systems | |  | | | Linux, Unix |
| Programming Languages | |  | | | Embedded C++ / C++ (STL, Qt, Boost...), Bash, Python, Ada |
| Tools | |  | | | gVim, Jira, Jenkins, Entreprise Architect, gdb, Valgrind, DOORS, Doxygen, cmake, git... |
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| Professional Experience | | | | | |
| Now  06/2024 |  | | **Project Requirement Analyse – Software Testing**  • Updating installation procedure  • Updating automotive software with Magic Draw  • Use of a virtual machine  Project Environment: Vmware, Windows, Jira Git, MagicDraw, OSLC, Symphony  Used skills: analyse of requirement | | |
| 05/2023  12/2023 |  | | **Requirement Analyse – Software Testing**  The tests and analysis of the requirements have revealed many errors.  • Matlab / Simulink test  • Checking the requirements and the the link between the requirements in the V-cycle  Project Environment: Matlab, Simulink, Codebeamer  Used Skills: analyse of requirement | | |
| 04/2023  05/2023 |  | | **Software Quality**  Analyse and Documentation of a un-documented library (part of ICV-L Software)  Tools/Skills: Doxygen, cmake, gnu C++ | | |
| 01/2022  07/2022 |  | | **Delivery Risk Manager**  FMEA for a TuSimple Software (autonomous driving trucks)  Tools/Skills: FMEA  A complete analyse was delivered. | | |
| 05/2021  08/2021 |  | | **Software Engineer**  Two programs must run on the same processor on IDNE platform (Intelligentes, Datengetriebenes und Netzstabilisierendes Energieversorgungsmanagement / Smart Grids).  Tools/Skills: gvim, C++  A code review was done, with positive conclusion. | | |
| 09/2019  06/2020 |  | | **Software Architect / Lead Software Developer**  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 | | |
| 04/2017  08/2019 |  | | **Lead Software Engineer, Software Management**  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  Tools/Skills: cmake, gvim, bash script | | |
| 12/2015  03/2017 |  | | **Software Engineer**  Automotive suppliers – Infotainment  • 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...)  Tools/Skills: libusb, c++, wifi, coding and decoding | | |
| 04/2015  11/2015 |  | | **Software Architect**  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.  Tools/Skills: Entreprise Architect, c++, cmake, gdb | | |
| 01/2015  03/2015 |  | | **Software Tester**  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,  Tools/Skills: c++, cmake, gdb | | |
| 11/2013  12/2014 |  | | **Software Tester**  Automotive suppliers – Electric/Electronic Architecture  From objects positions, this software compute the objects trajectories  • Check of requirements (incomplete or contradictory)  • Test plan  • Test report  Tools/Skills: DOORS, gdb | | |
| 08/2013  11/2014 |  | | **Software Integrator**  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.  Tools/Skills: C++, QAC, gvim. | | |
| Languages | | | | | |
| French |  | | | | Mother tongue |
| English |  | | | | Business fluent |
| German |  | | | | Business fluent |