

# Fabien Teulieres

Los Angeles, California 91306

www.linkedin.com/in/fabien-teulieres-2777401 • 805-908-2284 • fabien.teulieres@gmail.com

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## QA Manager and Sr. Software Engineer

*Multifaceted technical career with 15-year track record of innovation and success*

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Technically sophisticated engineering professional with solid history of effective design, implementation, integration and testing of business systems. Broad knowledge and success in development of commercial solutions. Advanced skills with leading edge programming tools complemented by proven ability to assimilate and rapidly utilize emerging technologies. Accomplished trainer and project leader. Able to direct multiple tasks effectively and readily master innovative software and tools. Proficient communicator skilled in building and strengthening relationships across organizations to drive cohesive, strategic operations. Experience leading geographically dispersed teams. Languages: Fluent in French, English.

*Software Development / Test Development, Schedule and Execution / Project Management  
Test Driven Development / Continuous Integration / Process Improvement and Automation  
Troubleshooting and Issue Resolution / Training and Mentoring*

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### TECHNICAL PROFICIENCIES

**Software Development:** C++, C#, VB.NET, Java, JavaScript, ASP.NET, Razor, HTML, CSS, XML, JSON, SQL, LINQ, Visual Studio, Eclipse, SQL Server, Algorithms, Data Structures, Design Patterns

**Tools:** BitBucket, Git, SourceTree, Tortoise SVN, Accurev, Selenium IDE/WebDriver, Ranorex, TestComplete, TestLink, FogBugz, YouTrack, FinalBuilder, Team City, SysInternals, Windows Batch, Unix Shell Scripting, Oracle VirtualBox, Code Collaborator, Infragistics

**CAD/CAM:** CATIA, SolidWorks, Solid Edge, ESPRIT

**3D Modeling:** Parasolid Kernel

**Others:** Software Development Life Cycle (SDLC), Software Architecture and Design, Agile Methodology, Scrum, Version Control Systems, Build Systems, Machine Virtualization, CAD, CAM, CNC Machining, Applied Mechanics

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### PROFESSIONAL EXPERIENCE

DP Technology, Camarillo, CA

2005 - 2017

**Software Quality Assurance Manager (2009 - 2017)**

*Technical Scope: VB.NET, C#, C++, Razor, ASP.NET, MVC, Batch Scripts, SysInternals, TestComplete*

Managed quality assurance practice for 30 programmers and product engineers, geographically spread across the US and Europe. Directed concurrent technology projects in line with aggressive timeline, quality and business requirements. Defined quality processes and documents to govern the metrics, defect management process, master test planning and QA reporting processes. Closely monitored the flagship product ESPRIT and ensured the delivery of defect free, high quality software in all its releases. Trained junior engineers and interns on the testing process, principles, methodologies and tools. Managed the resource allocation as per the business stakeholders' priorities. Developed functional, performance and deployment test strategies and templates. Ensured all aspects of the application are tested.

**Key Achievements:**

- Saved over 60% of expenses on hardware by implementing machine virtualization with VirtualBox and by improving the load balance of automatic replays.
- Centralized quality metrics and provided live status of build and replay agents through the development and implementation of an intranet website ("SQA Web") built on the MVC pattern using ASP.NET and C# Razor.
- Supervised the build system reducing the turnover time by 15% and release failures by 50%.

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- Reduced the test suite redundancy by 90% through targeted integration scenarios, granular unit tests and reusable test templates.
- Raised functional coverage to 80% on critical, previously untested components by leading aggressive testing campaigns.
- Stabilized the ESPRIT solution through memory profiling, stress testing and performance testing.
- Developed a custom programmable test automation framework using the .NET stack, the product's API, batch scripts and the SysInternals library.
- Created and evangelized the adoption of systematic testing and code coverage practices to the worldwide development group.

## Senior Software Engineer (2005 – 2009)

*Technical Scope: C++, Infragistics, Parasolid Kernel, Proprietary CAD APIs, Compound File Explorer*

Designed software modules for ESPRIT with an emphasis on scalability and performance. Led the efforts from business requirement specifications to prototyping, development, documentation, testing and integration. Coordinated the design and implementation of algorithms and user interfaces. Collaborated with QA, project managers, business stakeholders, and developers. Ensured on-time completion of project deliverables. Trained and mentored junior engineers.

### **Key Achievements:**

- Developed four machining strategy algorithms “Along Axis, Zig Zag, Spiral/Helical and Short Path” and reduced the programming time by 50% for drilling operations.
- Added a new “Selection by Propagation” algorithm to ESPRIT's face selection command and boosted user productivity by 90% for 5-axis machining operations on solid models.
- Improved the solution by developing an “Automatic Feature Recognition” functionality to efficiently extract CNC relevant geometric patterns from complex 3D models using Parasolid Kernel.
- Developed a CAD document reader using binary reverse-engineering and proprietary APIs, enabling ESPRIT users to load 53% of the available mainstream CAD data formats with 95% accuracy.
- Solved issues specific to EDM technology (Electrical Discharge Machining) by creating new geometric features.
- Provided detailed code and testing documentation to peers and managers, resulting in reduced resolution time.
- Revamped, optimized and tested legacy code for better maintainability.

*Additional experience as Software Engineer (2001-2005) for Dassault Systems (3DS), Paris, France*

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## EDUCATION AND CERTIFICATIONS

### **Master of Science in Mechanical Engineering**

Institut Supérieur de Mécanique (Supmeca), Paris, France

- Applied Mechanics, Structural Engineering
- Computer Science

### **Certifications in Algorithms**

Stanford University ([www.coursera.org](http://www.coursera.org))

- Divide and Conquer, Sorting and Searching, Randomized Algorithms
- Graph Search, Shortest Paths, Data Structures