








Francois Pignalet

-  Software architecture, development and integration with 25+ years expertise
-  Curd-Jürgens-Str 18, 81739 München
-  francois.pignalet@gmail.com
-  00491704868403
-  06/07/1967

* Areas of expertise

- Full stack developer
- AGILE software development
- Maintainable and documented code writing... Clean Code!
- Application architecture (Object Oriented & procedural) from specification
- Heavily threaded architectures specialist
- Complex refactoring and debugging

* Main skills

Java, C, C++, Javascript, SW architecture, OOP, REST, Eclipse, CUnit, JUnit, XML, JSON, Ant, AGILE, JIRA, SVN, V Cycle ==

CONFIRMED

Python, Php, Angular, React, Spring, jQuery, SQL, Linux, Jenkins, DOORS, MFC, Win32, Asm 68K, Github, Continuous Integration, Rational Unified Process, Design Patterns ==

AVERAGE

C# / .NET, J2EE, OSGi, WebLogic, CORBA, Android, Django, Asm x86 / PowerPC / ARM ==

LOW



Languages

French

100% (MOTHER TONGUE)

English

C1

German

B2



Work Experience



2018/11 - until now

Freelance

Open Source project:
Website pro
(whole time)

≈ Full-Stack developer

Description
Web development

- [This website](#)
- [Source code](#)

Environment

Windows 10, Linus Debian 9, JetBrains (IntelliJIDEA, PhpStorm, PyCharm, Datagrid), React, Angular, Spring, Django, Microservices, Apache2, WAMP Server, Tomcat, MySQL, MariaDB, Jira, Jenkins, Github

Keypoints

Java, Javascript, Php, Python, SQL

Methodology

- AGILE software development
- continuous integration
- Extreme programming



2015/10 - 2018/10

HENSOLDT GMBH Ottobrunn (former Airbus Defence)

Products / team:
IFF
(until the end)

≈ Software engineer / Full-Stack developer

Description
IFF interrogators, transponders and related tools, based on these products

- [MSSR](#)
- [LTR](#)

Environment

Windows 7, Linux Debian 9, IoT, Eclipse, Swing, Ant, CUnit, JUnit, React / Node, jQuery, AJAX, XML, JSON, Microservices, GNU Autotools, Docker, JIRA, Jenkins, DOORS, SVN, various com links & specific HW

- UDP/TCP IP
- RS-XXX
- CAN bus
- [ADS-B](#)
- [REST API for Network Controller](#)
- [\[Moxa\] Embedded computer for military applications](#)
- [\[Aitech\] Embedded computer for military applications](#)

Keypoints

C, C++, Java, Javascript, Php, Asm x86

Methodology

- AGILE software development
- continuous integration



2000/06 - 2015/09

Airbus Defence (former Cassidian / EADS Defence & Security).
[mission for ALLEN until 2002/02]

**Products /
team:**
IFF
(until the
end)

≈ Software engineer

Description

IFF interrogators, transponders and related tools

- MSR1000
- SRPM
- ... and other projects related with

Environment

Windows 7, Eclipse, Swing, Ant, AspectJ, Angular, AJAX, JUnit, JIRA, SVN, DOORS, various com links & specific HW

- UDP/TCP IP
- RS-XXX
- ADS-B
- [Kontron] Embedded computer for military applications

Keypoints

C, Java, Javascript, JSON, XML, Asm x86, Asm ARM STR7

Methodology

AGILE software development

Project:
CLA2000
(1 year + 3
months)

≈ Software engineer

Description

Military air control in SCCOA program

- SCCOA

Environment

Linux, Eclipse, Hibernate, Ant, POJO, DOORS

Keypoints

Java, XML

Methodology

company internal process (~V cycle)

Project:
LMT /
GCTAM
(2 years + 4
months)

≈ Software engineer

Description

- Supply flow handling in a military system
- Pure Java rich client based on a multithreaded 3 tier architecture

Environment

Windows 7, Eclipse, Swing, Java Beans, Ant

Keypoints

Java

Methodology

Company internal process (~V cycle)

Project:
MOIE Sic
Terre
(2 years + 7
months)

≈ Software architect / Team leader (~6 developers)

Description

- Message handling in a military weapon system communication infrastructure
- Huge team ~100 people (70 SW developers)

Environment

Windows XP, Enterprise Architect, Eclipse, Swt, OSGI, J2EE, EJB, POJO, JAXB, Spring, SVN

Keypoints

Java, Python, Ant, XML, XSLT

Methodology

MDA Approach, Design Patterns

Project:
Euromale
(7 months)

≈ Software architect / Team leader (~3 developers)

Description

- Drone video data real-time acquisition and handling
- Multithreaded 3 tier architecture with extensive use of design patterns: Creational (Abstract Factory / Builder / Factory method / Object pool / Singleton), Structural (Bridge / Facade), Behavioral (Command / Iterator / State), Concurrency (Scheduler)

Environment

Windows XP, Eclipse, Web Services, BEA WebLogic, PostgreSQL, SVN

Keypoints

Java, C++, .NET (C# / J#), SQL

Methodology

MDA Approach, Design Patterns

Project:
Helios 2
(4 years + 5 months)
[mission for ALTEN/EADS FLEXIMAGE]

≈ Software architect / Team leader (~6 developers)

Description

- Geographic information with image management (2D & 3D) for mission preparation and intelligence
- Heavily multithreaded 3 tier architecture (specific Parallel handling layer / error management layer)
- Specific deployment platform (initially based on DOS/batch tools, then Emacs/lisp tools)

Environment

Windows NT, Unix/CDE, Microsoft MFC, CORBA, ActiveX components, ORACLE DB, Rational suite (ClearCase), Bounds Checker

Keypoints

C++, SQL

Methodology

Rational Unified Process, Design Patterns

≈ Trainer in ALTEN Learning School (~15 attendees)

Description

Sessions about coding and unit testing best practises (~3 hours)

📅 1999/10 - 2000/05

THALES group (former ALCATEL CGA Transport).
[mission for ALTEN]

Project:
Wayfarer
(7 month)

≈ Software architect / Team leader (~4 developers)

Description

- Real time embedded software inside bus ticketing console
- Virtual machine for 386EX microcontroller emulation

Environment

Windows NT, Visual Studio, Microsoft MFC, Wayfarer BUS Ticketing Machine, 386EX microcontroller

Keypoints

C, C++, Asm x86

Methodology

- V-Model
- static & dynamic modeling (UML Diagrams)

Project:
GART
(1 month)

≈ Software developer

Description

Contactless smartcard demonstration application

Environment

Windows NT, Visual Studio, Microsoft MFC, Serial RS-232 communication, Contactless smartcard antenna

Keypoints

C++

📅 1998/07 - 1999/09

ZODIAC (former INTERTECHNIQUE IN-SNEC).
[mission for ALTEN]

Project:
EUMETSAT
(1 year + 3 months)

≈ Software developer

Description

- Regulation and transmission for Meteosat 2nd generationsatellite
- Heavily multithreaded data flow handling
- Real time data treatment
- Data encoding (Reed-Solomon, Pseudo-Randomization, Convolutional)

Environment

Windows NT, Microsoft MFC, Windows DDK, DSP 56301, OOP, Design Patterns

Keypoints

C++, C, Asm DSP 56301

Methodology

- V-Model
- static & dynamic modeling (UML Diagrams)

 1996/01 - 1998/06

ATELIER (Groupe Ka)

Project:
EDU
(9 months) ≍ Software developer

Description

- Essential Disk Utilities: VFAT disk tools for Psion organizer (series 3 & 5):
- Defragmentation / Scandisk / Smart Format / Disk Editor

Environment

Windows NT, Psion EPOC(16/32), OOP

Keypoints

C, C++

Methodology

Static model, Booch diagrams

Project:
PsiTools
(1 year) ≍ Software developer

Description

Save and restore utilities for Psion organizer (series 3 & 5)

Environment

Mac OS (6/7), Psion EPOC(16/32), Visual C++, Metrowerks CodeWarrior, OOP, Design Patterns

Keypoints

C, C++

Project:
Velvet
(9 months) ≍ Software developer

Description

- Faxing (classe 1 & 2) software
- Device to device file transfers (X, Y and Z modem)
- Asynchronous parts under interrupt (no real multitasking available)

Environment

Mac OS (6/7)

Keypoints

C, C++

 1992/04 - 1995/12
4D - France & USA (former AC!)

Product:
4th Dimension
(1 year, with 6 month in USA) ≍ Software developer

Description

- Tools for 4th dimension (RDBMS IDE):
- Platform Independent Extension Kit: tools and API for writing 4D plugins
- 4D plugins. For example : smartcard handling
- 4D Server connection API: samples & tests applications for writing 4D native clients

Environment

Windows (3.11/WG/NT), Mac OS (6/7), MPW, Think C, Think Pascal, STL, MacAPP, OOP, MacsBug

Keypoints

C, C++, Pascal, Object Pascal, Asm 68K, Asm x86

Products:
4th Dimension / Object
Master
(2 years + 8 month) ≍ IT Technician / Software developer

Description

- 4th dimension (RDBMS IDE) hotline
- Object Master (C/C++/Pascal/Modula2 IDE) hotline
- Development problems handling
- Samples and tools writing

Environment

Windows (3.11/WG/NT), Mac OS (6/7), MPW, MacsBug

Keypoints

4th Dimension, C, C++, Pascal, Modula2

 1986/10 - 1992/03

Centre d'Essai des Propulseurs de Saclay (DGA), GEET, LTC...

General:

(5 years + 5 month)

⌘ Software developer

Description
Database development. EDM.
Environment
Dbase2, MS-DOS, Mac OS (6)
Keypoints
4th Dimension, DOS cmds

Education

 During last years...

2017

- ⌘ Training: aerospace systems SW development
DO-278 Software Standards
- [Wikipedia...](#)

2004

- ⌘ Training: application server
BEA WebLogic Integration
- [BEA WebLogic](#)

1985

- ⌘ Diploma graduation
Brevet de Formation Technique Aéronautique (~technical baccalaureate)
- [Aerocampus](#)



Activities and interests



Until now...

Activity

≡ Sport

Martial arts

Aikido, Boxing

Running

- [2018/10/09: München marathon](#)
- 2018: B2Run
- 2017: B2Run
- 2016: München Stadtlauf, Marathon, B2Run
- 2004 - 2006: Paris semi marathon & marathon, 5K / 10K / 12K races

Triathlon

- [2018/08/05: Regensburg, Olympische Distanz](#)
- [Ergebnisse](#)
- [2018/07/01: Tegernsee, Olympische Distanz](#)
- [Ergebnisse](#)

Activity

≡ Music

Guitar

classical & metal

Bass guitar

"DFE" (studies end cycle) 1st prize in 2011

- [Francis Darizcuren School](#)

Interests

≡ Various

Travelling

Gastronomic restaurants

Classical & metal music

Boardgaming & Role Playing games (oldschool way)

To be continued...



To the top

[Find me on social media.](#)



Proudly propelled by the following source code <https://github.com/fpignalet/My-website-RAW>

Verified with codefactor plugin in Github

codefactor A

Powered by w3.css