Vincent FIACK 5 chemin du Koepfel 67700 SAVERNE, FRANCE +33 6.41.93.05.28 vfiack@gmail.com

I'm a hands-on Head of Software Development at Nanalysis, a leading manufacturer of advanced scientific instruments (NMR & MRI). Leading the software development behind the High-field NMR industry's first viable alternative, I take pride in optimizing project timelines, standardizing development methods, and fostering outstanding team retention and customer satisfaction.

Leadership & Management	Process & Tools
• Distributed team management, hybrid remote/on-site collaboration	Agile project tracking with Jira
Project management and resource allocation	Git and Subversion for versioning
Agile methodologies: Kanban, Scrum	CI/CD with Jenkins and GitHub actions
Software development	Technical skills
Software strategy formulation and execution	• Service-based architecture, REST APIs, Message queues,
Software architecture	• Languages: Java, C, Python, Rust, JavaScript, TypeScript,
<ul> <li>Quality management (ISO-9001) and code review</li> </ul>	<ul> <li>Databases: MySQL, Postgres, Oracle, SQLite</li> </ul>

# Led a distributed software development team of 15 people across France and Canada, overseeing multiple specialized teams:

Core: Developed backend libraries and desktop applications.

RS<sup>2</sup>D / Nanalysis: Head of Software Development

Embedded: Developed firmware for MRI and spectroscopy devices.

Scientific Development / Signal Processing: Applied cutting-edge algorithms for MRI & NMR applications.

### Spearheaded the software development and successful market introduction of the NMR industry's first viable alternative product, disrupting a previously monopolistic market.

- Aligned software strategy with business objectives, optimizing project delivery timelines and team productivity.
- Standardized development methods and product release lifecycle company-wide, ensuring code quality, on-time deliveries, and maintaining ISO-9001 certification.
- Nurtured team talent through effective people management, achieving 100% team retention.
- Received increasingly positive customer feedback, reflecting high levels of customer satisfaction.
- Actively participated in all aspects of software development, providing hands-on contributions to new features and regular code reviews to foster a collaborative development culture.

Technologies: Java, Swing, JavaFX, Quarkus, Python, C, Rust

#### GE Healthcare: Senior Developer

Member of the "interoperability" team for a dose tracking solution:

- Maintained and improved the data ingestion platform, ensuring seamless integration with medical equipment from multiple manufacturers, streamlining data acquisition and analysis.
- Developed a PACS (medical image archive) indexing tool, leading to faster integration of customer systems.
- Conducted code reviews and implemented quality improvements within a SCRUM-based team, ensuring compliance for medical device software (ISO-13485).

Technologies: Java, J2EE, Spring Boot, JMS, DICOM, MySQL, MariaDB, React, TypeScript

#### RS<sup>2</sup>D: Software Engineering Manager

#### Software Team Management and Cross-Functional Collaboration

- Led and managed a highly efficient software development team of 3, fostering a collaborative environment and delivering successful • projects.
- Coached MRI and hardware engineers, enhancing their programming skills for improved software, firmware and pulse sequence compatibility, leading to enhanced system reliability.
- Setup and training for versioning, continuous integration, ticket tracking and quality management tools
- Established effective development methods, selecting features, objectives and priorities to align with business goals and deadlines.

Defined and implemented the software quality process, establishing and monitoring key indicators. Obtained ISO-9001 certification.

## Maintenance and improvement of the software suite (Imaging, spectroscopy and development tools)

- Enhanced software quality, maintainability, and performance by conducting a comprehensive code base clean-up and streamlining internal architecture for increased system robustness.
- Developed advanced data acquisition, storage, visualization, and analysis tools, enabling efficient scientific usage and improved user • experiences.
- Designed a robust Sequence and Plugin development API, enabling customizable functionality for third parties. •

Revamped the graphical user interface, optimizing usability and customer satisfaction.

Technologies: Java, Swing, SQLite, JAXB, Javassist (byte code manipulation), JGit

2019 - 2020

2020 - ...

2016 - 2019

#### Embedded development on MRI and NMR systems

- Successfully interfaced FPGA and embedded software, enabling seamless communication between hardware and software components.
- Implemented hardware control, monitoring, and networking aspects of MRI and NMR systems, ensuring stable and reliable operation. *Technologies: C, Python, µC/OSII, embedded Linux, Arduino, Raspberry*

velopment and implementation of ECG dematerialization DICOM ECG Viewer Worklist server interfaced with multiple data sources Related DICOM tools: query/retrieve to WADO proxy, filtering store proxy, chnologies: Java, Swing, DICOM, Dem4che, ORM HL7, HAPI ranet portal redesign and modernization chnologies: Java, JSP (Tomcat), Citrix sign and implementation of an authentication server chnologies: Java, Hibernate, Jetty, JSON, Web Services (XFire), HAProxy velopment of a "shared workstation" on thin clients chnologies: C, smartcard & PCSC, Linux eation of a collaborative portal application chnologies: Java, Applets, JSP, HTML, CSS, JavaScript, SQL (Oracle) <b>élis: Developer</b> velopment of a mata-search engine for patents chnologies: HTTP, Python, XySQL, PHP rsonal projects and opensource contributions chnologies: Java (Swing, Xstream, JSR 223,) cane Groupware: Maintainer, architect, lead developer minitated for the 2005 "frompeted of in the applications are labored by protocol Synchronous and real-time applications are labored by protocol synchronous and real-time applications chnologies: Java (Swing, Xstream, JSR 223,) cane Groupware: Maintainer, architect, lead developer minitated for the 2005 "frompeted by Thre", more than 50.000 downloads II development of an open source groupware Central platform on which the applications are built Peer-to-peer, "Object-criented" network protocol Synchronous and real-time applications: instant messaging, file sharing, forum, calendar, task list, personal notes, shared drawing, mail client, RSS reader, voice chat, Public relations, project management, documentation, seminars chnologies: Java (network, Swing, JSP, 118n, serialization), databases (HSQLdb, Mysql, Postgres, LDAP), web	2013 - 2015
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her contributions	
Other contributions	
QixBall: arcade game for Android (2018)	
Xemelios: authentication modularization, architecture advices (2006)	
TinyMCE: plugin development, bug fixes (2005)	
Nuxeo CPS: Contributor, quota management and authentication modules (2004-2005)	
Ruby: Sharp Zaurus port (2002)	
ucation 01-2002: <i>Licence professionnelle</i> "Designer/developper in distributed environments", IUT Illkirch	

1999-2001: IUT Informatique, Illkirch

Equivalent to an Associate's degree in Computer Science.

# Miscellaneous

French: native speaker

English: fluent, daily professionally use, 910 points on the TOEIC test in 2002. Personal interests: Beekeeping, music (violin), go, sport (cycling – road racing).