

Thomas VUILLAUME

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Graduated from the French Ecole Centrale Lyon Engineering School, I forged my expertise at the crossroads of the aerospace and digital sectors. My career path has given me in-depth knowledge of the management of complex industrial projects, software engineering - covering embedded, web, and cloud - and cyber security, with particular emphasis on governance and application hardening. Today, as the head of the Software & Cyber division at SOLENT, I manage a workforce of 70 people divided into three departments. My vision of leadership, centered on transparency, excellence, and the strength of the team, has led to the successful implementation of a 30 FTE R&T expertise program over three years for a global player in aerospace and defense.

Major Skills

Hard Skills A focus on my major technical or knowledge-based abilities

- Sectors knowledge : Aeronautics ; Healthcare ; Energy ; Information Systems ; Cloud ; Services
- Languages (by skill) : JavaScript (Node.js, React) ; Typescript ; Python ; C ; C++ ; PHP ; HTML ; CSS ; SQL ; Bash
- Tools & Frameworks : Git ; GitLab ; GitHub ; Redmine ; Docker ; Terraform ; Jenkins

Soft Skills Here are my major interpersonal attributes and non-technical abilities

- Adaptability: I'm flexible and able to adjust quickly to new situations or changing environments.
- Resilience: I'm able to recover quickly from difficulties and maintain a positive attitude.
- Communication & Persuasion : I'm able to convince others to take a particular course of action.

Experience

Head of Software & Cyber Division *SOLENT*

12/2020 - Today

Aero, Healthcare, Cyber, Telecoms Steering software engineering projects in SOLENT portfolio

Responsibilities

- 70 people, turnover 4M€
- Monitoring and reporting to the company director
- Team management: project recruitment and staffing
- Define Division's development strategy (key skills and technologies)
- Managing and building responses to calls for tender

Tech Stack Management tools (PowerBI, Redmine, GitLab, OpenProject) ; Various knowledge in embedded, Web, Cloud and Cyber

Engineering Manager *SOLENT*

03/2015 - 12/2020

Public Administration Development of marketplace platform for French public administrations

Responsibilities

- 60% steering / 40% coding ; Management of a 5-people team
- decomposition of business requirements into technical tasks
- coaching juniors and coordinating developers' work
- development of several back-end features and Terraform architecture
- development of AWS Lambdas for executing processing flow blocks for dematerialized invoices
- setup of a continuous integration/build/deployment server on an Amazon Linux 2 virtual machine (Jenkins)
- quality checks and production deploys

Tech Stack Typescript, React, Jest, Storybook, AWS stack (MongoDB, Lambda, SQS), Terraform

Energy consulting company Development of a web application allowing online time tracking entries

Responsibilities

- 30% steering / 70% coding ; Management of a 3-people team
- decomposition of business requirements into technical tasks
- development of the main Timehseet component and its state management
- Jenkins CI pipelines configuration
- quality checks and production deploys

Tech Stack Typescript, React, Redux-Saga, Styled Components, Jest, Storybook, Loopback framework

Full-Stack Software Engineer *SOLENT*

07/2019 - 05/2020

Energy Sector Revamp of a smart meter software to introduce FreeRTOS tasks

Responsibilities

- Needs analysis for FreeRTOS real-time OS integration
- Analysis and setup of unit test environment in C for a bootloader-type module (on prototype)
- Development of a signing and verification tool for binary images (Python language), based on the ECDSA algorithm
- Splitting the C code of a software component into two isolated sub-parts, with interface setup initialized at startup by dependency exchange.

Tech Stack Git, Redmine, FreeRTOS, C lang, Python, Bash scripts, Keil µVision

Aeronautics Development of the new standard of the landing gear fault manager for the Airbus A350

Responsibilities

- Analysis of Technical Fact Sheets (FFT)
- Development and implementation of new features (C)
- Drafting and updating of avionics specification
- Design and drafting of functional test scenarios

Tech Stack Git, Redmine, C lang, Python, Bash scripts

Certifications

Operational project management *Opco Atlas*

2023

- Certificate no. 324

Professional Scrum Master I - PSM I *Scrum.org*

2019

- Certificate no. 449019 issued to 'vui.thomas@protonmail.com'

Education

General Engineer *École Centrale de Lyon - Écully*

2011 - 2014

- Aeronautics option
- Business Development Engineer course
- Semester abroad in University of Utrecht (2013)

Classes préparatoires MP *Lycée Pierre de Fermat - Toulouse*

2008 - 2011

- Mathematics and Physics

Additional activities

- Amateur photographer
- Alexa Skills casual developer

Languages

French: Native language
English: Advanced (C1)