



# Yoann Chamillard

## Full Stack Web & Mobile Developer Engineer

### IT-Skills

- Mobile Development
  - ★★★★★ Kotlin
  - Room, Firebase, Gson, Jetpack Compose, Retrofit, MVVM, Coroutine
  - ★★★★★ Flutter
  - ★★★★★ Android
- Web Development
  - ★★★★★ HTML, CSS
  - ★★★★★ JavaScript
- Web Frameworks
  - ★★★★★ Django
  - ★★★★★ Vue.js
  - ★★★★★ PHP-Laravel
- Back-end / Server
  - ★★★★★ Python
  - Flask, SQLAlchemy, PyMongo, PyTest, FastAPI, Numpy
  - ★★★★★ Node.js
  - ★★★★★ Java
  - ★★★★★ Nginx, Apache
  - ★★★★★ API
- Authentication
  - ★★★★★ JWT Auth
  - ★★★★★ Firebase
- Devops, CI/CD
  - ★★★★★ Git / GitLab
  - ★★★★★ Docker
  - ★★★★★ Jenkins
  - ★★★★★ Selenium
  - ★★★★★ Cron
- Databases
  - ★★★★★ MySQL
  - ★★★★★ PostgreSQL
  - ★★★★★ MongoDB
  - ★★★★★ SQLite
- Data
  - ★★★★★ Shiny
  - ★★★★★ Pandas
  - ★★★★★ Matplotlib
  - ★★★★★ Jupyter
- AI & Tools
  - ★★★★★ Tensorflow
  - ★★★★★ Keras
- Others
  - ★★★★★ Bash
  - ★★★★★ OpenAPI
  - ★★★★★ Jira

### Infos

Full driving licence A,B

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France

International mobility

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LinkedIn

GitHub

French

English (C1, Bulats)

German (B1)



### CAD / CAM

- ★★★★★ Catia V5&V6
- ★★★★★ Creo 4.0
- ★★★★★ 3D Printing

### PLM / PDM

- ★★★★★ NewPDM
- ★★★★★ Windchill

### FEM / CAE

- ★★★★★ Ansys Wbench
- ★★★★★ Abaqus
- ★★★★★ Hyperworks
- ★★★★★ Hypermesh

Le 23/7/2024

### Work Experience

09/22 - 11/23 **Web & mobile developer**

Synapsun, Lyon, FR

Full stack web & Android mobile developments:

Flutter, Python, Kotlin

#### Context - Mission:

Automate and improve company's repowering\* service reactivity (\*: Identify and offer replacement solar panels to solar plant owners whose panels are either ageing or damaged)

#### Tech. Envir.:

Mobile: Android, Flutter, Kotlin  
Web: Python, Django, Javascript, PHP, HTML, CSS  
Devops, CI/CD: Git, GitLab  
Databases: PostgreSQL, MongoDB  
Languages: French, English (international team)  
Others: OpenAPI, API, Jira, VBA

#### Goal:

- Relieve commercial service in the process dealing with repowering quotation requests and reduce reply time to potential clients.
- Identify and immediately access client's plant's panels' specifications
- Automate the search for compatible panels available either in our shop or at suppliers.
- Give our clients a mobile app whose objective is to guide them to send a quotation request on identified compatible products.

#### Tasks - Achievements:

- Collection of needs, built specification dossier with technical and functional specifications, software application components definition & design to best answer the company's needs.
- Web Scraper Development in Python
- Data Models Design
- Wrote APIs specifications in the OpenAPI / Swagger standard
- MongoDB product database and Python FastAPI API setup

- Mobile Multi-platform client app development in Flutter.
- Secure Access management with JWT tokens (Json Web Token)
- PostgreSQL database and Python Django back-end setup for Users and Quotations management.
- Supplier / Subcontractor contact for outsourced tasks

11/19 - 04/22 **R&D Engineer**

[Böllhoff \(via Davricourt\), Chambéry, FR](#)

Automotive Mechatronic Product design & development

Context - Mission:

R&D Innovation Service, development of a new range of products with high value - instrumented assembly systems and fasteners.

Tech. Envir.:

CAD: DS Catia V5, PTC Creo 7  
PDM: Windchill  
CAE: Ansys Workbench, Creo Simulate, Altair Simsolid  
DOE, Statistics: Minitab  
Extensometry, Acquisition: HBM Strain Gauges, Catman Easy, Kickstart Multimeter Oscilloscope  
Languages: French, English (international team)  
Others: Excel, Powerpoint, VBA

Tasks - Achievements:

- Products and Process/Trials related products design (geometry, CAD/CAE, dimensioning, optimization, interfaces): Sensors, Preconstraint screwed assemblies, Body-fixed elements (tank, roofbox,...), Automotive suspension/Ground liaison elements (McPherson, Flexible, Blade,...), Custom Machines (glueing, pneumatic prehension/command)
- Technical drawing, Functional dimensioning, Chains of dimensions (Arithmetic, Quadratic)
- Ensure plays with environment (architectural, thermal, ...)
- Ensure mountability, positioning and fixation of parts with assembly means
- Writing trial and validation procedures: Lab, Sub-system, System, Flexion and Tensile trials.
- Taguchi/Design-Of-Experiments : Definition, Analysis
- Extensometry, Acquisition: check mechanical resistance and concordance with CAE simulations with strain gauges (HBM)
- Plasturgy : Water/Dust proof casing design
- 3D Prototyping: FDM 3D printing, Supplier Contact for other prototype parts
- Take part in design review meetings : progress and problems sharing, action plan definition and realization.

11/16 - 09/19 **Automotive Design Engineer**

[Renault \(via Bertrandt\), Vélizy, FR](#)

Underbody & Engine Compartment Design & Architecture

Context - Mission:

Architecture/Powertrain Service- Vehicle parts design:  
 11/16>03/17: Renault Zoé Ph.2 (EV) Engine compartment/Underbody Design/archi;  
 08/17>07/19: PHEV, CMF1/CMF-B Platforms, Underbody Design/archi and Technical Management;  
 04/19>09/19: Euro7 & HEV, CD1 Utility Vehicle Platform, Underbody Design/archi and Technical management.

Tech. Envir.:

CAD: DS Catia V6  
PDM: NewPDM  
Languages: French, English (international team)  
Others: Excel, Powerpoint, VBA

Tasks - Achievements:

- Product definition (Geometry, Interfaces): All kind of part in designated architecture area.
- Ensure plays with environment (Archi, Thermal,...) with fixed or moving parts

- Ensure mountability, positioning and fixation of parts with manual or automatic means
- Technical Drawing, Functional dimensioning, Chains of dimensions (Arithmetic, Quadratic)
- Design convergence management
- Team management (Management of French and off-site designers)
- Organize and lead design review meetings, problem presentations, action plan definition and application.

## Education - Certifications

09/22 - 08/23 **Bachelor Degree in Software Design & Development** [EPSI, Lyon, FR](#)  
RNCP Lvl.6 - Data/IA minor; 09/23: Government Skill Certification

- Development: Java, Python, Dart/Flutter, etc.
- Data, Databases, etc.
- Tests & CI/CD

06/22 - 08/22 **Web Developer Formation** [Epitech, Paris, FR](#)  
RNCP Lvl.5

- PHP, HTML, CSS, JavaScript, Vue.js, Laravel, Bash, Git

09/13 - 08/16 **Master degree in Mechanical Systems Engineering** [UTT, Troyes, FR](#)  
RNCP Lvl.7; Environmental Design & Industrialization minor

09/11 - 06/13 **2-Year Degree in Mechanical Engineering** [IUT, Troyes, FR](#)  
RNCP Lvl.5

- Design, Functional dimensioning, enslavement and programming of a robot to take part in the French robotic cup.

## Hobbies

- Outings: Hiking, Concerts, Motorcycle, Photo
- Travels: Sweden, Cambodia, Thailand, Germany
- Music: Drums, Piano
- Reading: B. Werber, M. Chattam, F. Thilliez