



# 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
  - ★★★★★ **Java**
  - ★★★★★ **Nginx**
  - ★★★★★ **Apache**
  - ★★★★★ **API**
- Authentication
  - ★★★★★ **JWT Auth**
  - ★★★★★ **OAuth**
  - ★★★★★ **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 18/6/2024

### 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)

Tasks - Achievements:

Others: Excel, Powerpoint, VBA

- 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 \(via Bertrand\), 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