

Yoann Chamillard

Full Stack Web & Mobile Developer Engineer

Infos

Full driving licence A,B

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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 12/6/2024

IT-Skills

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

Work Experience

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

Full stack web & Android mobile developments:

[Synapsun, Lyon, FR](#)

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 \(via Bertrand\), 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