Yoann Chamillard
Software Engineer

Infos
Full driving licence A,B

Paris, France

International mobility.
Legally authorized to work in Canada (working holiday visa).

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LinkedIn
GitHub

French (native)
English (C1,Bulats)
German (B1)
Korean (A1-2)

Strengths
- Teamwork
- Curiosity/Creativity
- Initiative
- Organization
- Adaptability

Mechanical Skills
- CAD
  Catia, Creo, TopSolid
- CAM
  TopSolid
- PDM
  NewPDM, Windchill, TopSolid
- FEM / CAE
  Ansys, Abaqus, Hyperworks
- 3D Printing

Hobbies
- Hiking
- Music / Concerts
- Cycling, Motorcycling
- Photography
- Traveling

Auto-generated in LaTeX
Date: 06/07/2025
Id: 81c3d6

Always eager to learn and improve, I love to share and communicate. After a successful first experience as a software engineer I am looking for new challenges!

IT-Skills

- **Databases**
  - ★★★★☆ **MySQL**
  - ★★★★☆ **PostgreSQL**
  - ★★★★★ **MongoDB**
  - ★★★★☆ **SQLite**
  - ★★★☆☆ **Firebase**
  Store/Firestore/Realtime

- **Web Development**
  - ★★★★☆ **HTML,CSS**
  SCSS/SASS
  - ★★★★☆ **JavaScript**
  Vue.js, Node.js

- **Others**
  - ★★★★☆ **Bash**
  - ★★★★☆ **Jira**
  - ★★★★★ **Regex**
  - ★★★★★ **Office**

- **Back-end / Server**
  - ★★★★★ **C#**
  - ★★★★★ **Python**
  Flask, Django, FastAPI, SQLAlchemy, PyMongo, PyTest, Numpy, Uvicorn, Pydantic, Requests
  - ★★★★☆ **Node.js**
  Express.js, Bcrypt
  - ★★★☆☆ **Java**
  - ★★★☆☆ **Nginx,Apache**
  - ★★★★☆ **Rest API**
  OpenAPI standard

- **Authentication**
  - ★★★★☆ **JWT Auth**
  - ★★★★☆ **Firebase**

- **Mobile Development**
  - ★★★★★ **Kotlin**
  Room, Firebase, Gson, Jetpack Compose, Retrofit, MVVM, Coroutine
  - ★★★★☆ **Flutter**
  - ★★★★☆ **Android**

- **Devops, CI/CD**
  - ★★★★★ **Git / GitLab**
  - ★★★★☆ **Docker**
  - ★★★☆☆ **Jenkins**
  - ★★★★☆ **Selenium**
  - ★★★★☆ **Cron**

Work Experience

09/24 - Today. Software Engineer — TopSolid, *Paris, FR*

Post-processors developement in: C# (.Net)

- Develop from scratch CNC machines, 6 axes robots and 2D/3D laser cutting machines post-processors in C# (.Net), G-code (Fanuc), ... + customization layer in proprietary language for our integrators.
- Write documentations and specifications.
- Test and fine-tune in production on customer site.
- Write scripts and automations.
- Install and configure test/machining simulation virtual machines.
- Ensure technical support for customers and improve existing post-processors.

04/24 - 09/24 Web & mobile developer — Training and job hunting, *Paris, FR*

Training and personal projects in : Kotlin, Python, Javascript

- Android 14 and Kotlin development masterclass.
- Kotlin apps: quiz app, drawing app, note-taking app, weather app, chat app (whatsapp-like with notifications), Uber clone app
- Python apps: flexible multilingual LaTeX resume generator based on the JSON Resume standard
- Javascript apps: CRM web app to assist me in my job hunting and applications management + job boards scraping to have all job postings and manage them and my applications in one place.
- Build a home server to backup my data with redundancy (raid) + deploy and expose apps and services

10/22 - 03/24 Web & mobile developer — Synapsun, *Lyon, FR*

Full stack web & Android mobile developments: Flutter, Python

- 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, *Chambéry, FR*
　　　　　Automotive Mechatronic Product design & development
- 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, *Vélizy, FR*
　　　　　Underbody & Engine Compartment Design & Architecture
- 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*
　　　　　Minor: Data/AI;　　09/23: Government Skill Certification

06/22 - 08/22 **Web Developer Formation**   Epitech, *Paris, FR*

09/13 - 08/16 **Master degree in Mechanical Systems Engineering**   UTT, *Troyes, FR*
　　　　　Minor: Environmental Design & Industrialization

09/11 - 06/13 **2-Year Degree in Mechanical Engineering**   IUT, *Troyes, FR*
- French robotic cup: Design, Build and program a robot.