



# Yannick Poirier



I'm a R&D software engineer, passionate about new technologies that are changing the world.

## EXPERIENCE

### PERSONAL INFORMATION

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Personal
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Mobile
- 🇫🇷 French  
Nationality
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- 🚗 Driving license  
B
- 🌐 <https://www.yannickpoirier.fr>

### LANGUAGES

**French** ★ ★ ★ ★ ★

C2

Mother tongue

**English** ★ ★ ★ ★ ☆

C1

Full Professional Proficiency

**Spanish** ★ ★ ☆ ☆ ☆

A2

Elementary Proficiency

**Luxembourgish** ★ ☆ ☆ ☆ ☆

A1

beginner

**2022 - current**

**YXALA (CAIRN S.A.R.L)**

Chief Technology Officer

Luxembourg, Luxembourg

Creation of **YXALA**, a multi-platform solution permitting to store, index and search any personal information under full privacy. Use of cutting-edge technologies, including an innovative **search engine**, **blind AI** and **end-to-end encryption**.

<https://www.yxala.com>

**2021 - 2022**

**CAIRN S.A.R.L**

Software Manager

Luxembourg, Luxembourg

Imagining the **future of the privacy** by creating a platform permitting to store any personal and private information in a secure way using an innovative zero-knowledge and end-to-end encrypted solution.

<https://www.cairn.lu>

**2017 - 2021**

**INVERTO**

HTS-DBS, High Throughput Satellite Data Broadcast System

Gonderange, Luxembourg

**ESA project** realized in collaboration with SES and University of Luxembourg. Responsible for designing the architecture and realize the implementation of a CDN for **Edge caching over Satellite**. The main task includes the implementation of a high performance and reliable unidirectional file transfer protocol exploiting broadcast capabilities of satellites.

<https://artes.esa.int/projects/htsdbbs>

**2016 - 2017**

**INVERTO**

Low latency video transcoder

Wecker, Luxembourg

Real-time H264/HEVC **video transcoder** for medical application using hardware accelerated image processing (OpenCL, OpenGL, Intel Quick Sync, WebRTC). Cross-platform video player for mobile and PC implementing high quality image rendering based on **GPU** acceleration.

<https://youtu.be/AM-EmW0dr-A>

**2010 - 2016**

**INVERTO**

WebKit for Smart TV

Wecker, Luxembourg

Developement of **Hybrid broadcast broadband TV** (HbbTV) web engine based on **WebKit** for Set-Top-Box. Implementation of HTML5 video player, DRM and Smart TV portals. Optimization of image decoders for sh4 processor. Development of linux graphics driver for ST40 chipset to accelerate web browser rendering.

<https://www.digitaltvnews.net/?p=10566>

# EDUCATION

2006 - 2010

## École Supérieure d'Électronique de l'Ouest

Master of Engineering Degree  
Angers, France

Electronics and computer engineering school. Specialization in **Embedded Systems and Automation**. Software engineering, Real-time kernel programming, electric actuators and linear process control.

<https://www.eseo.fr>

2008 - 2009

## University of Plymouth

Master of Science in Robotics  
Plymouth, United-kingdom

Research-intensive university providing a deep theoretical and practical knowledge of **interactive and intelligent robotics**. Artificial life and intelligence, adaptive behavior, information visualization, neural computation and dynamic systems.

<https://www.plymouth.ac.uk/courses/robotics>

2004 - 2006

## École Supérieure d'Électronique de l'Ouest

Higher School Preparatory  
Classes  
Angers, France

Intensive preparatory course in **mathematics**, physics, electronics and **computer sciences**.

<https://www.eseo.fr>

# SKILLS

## Programming languages

RUST, C/C++, OpenCL

Actix Web, MongoDB, FFMPEG, WebKit, Tensorflow

Software development for multiple targets (Android, Linux, Windows, Embedded Systems, Cloud server)

## Network protocols

UDP TCP/IP, DVB, DSMCC, GSE/MPE, SAT>IP

Wireshark, FLUTE, OpenFEC, WebRTC, MPEG-DASH

Development of multiple streaming servers. Good knowledge of DVB Transport Stream and IP over DVB.

## Web development

JavaScript, TypeScript, HTML, CSS

Vue, NuxtJS, React (Native)

Creation of responsive and interactive web applications using modern frameworks.

## UI/UX

Dart/Flutter

Android Playstore, Microsoft Store

Development of native applications for mobile and desktop. Publication of the applications on to store.

## DevOps

GIT, Docker, Ansible, NGINX, NodeJS, AWS-S3

CI/CD pipelines, Grafana, Prometheus, GitHub

Containerization, deployment and maintenance of cloud servers. Monitoring of the performance.

## Management

Agile software development

Incremental development, continuous delivery.

Planning software development, tracking milestones, leading the project team.

# EXTRA CURRICULAR

## Coach volunteer for the Go2Work project with ASTI

Help refugees in Luxembourg with their career planning

<https://www.asti.lu/le-projet-go2work-a-loeuvre/>

## Piano

Classical piano lesson with Leonardo Castellano

<https://youtu.be/aAudUCW0ba0>