Yann Allain

Mobile / Embedded Software Engineer

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Education

University of Western Brittany, College of Science and Technology — Sept 2017

MSc in Embedded Systems Software Engineering with Honors — Brest, France

Experience

Here is some recent and meaningful projects on which i've worked recently. I've been engaged on multiple other projects of small, medium and large scale on various technologies. If you want to know more let's get in touch.

CarOS Copilot App

Backend / Mobile / Embedded

Building a brand new kind of app for worldwide drivers, offering a copilot for your iOS & Android device's screen when driving. The system offer some mini-apps to send message by voice, listen to your favorites Spotify playlists, make calls, have the Waze's reports and a lot more.

Co-Founder & Mobile Software Engineer

@CarOS Systems

carosapp.com

Scheduling Simulator

Real Time / R&D

Designed and implemented crazy complex calculations algorithms for scheduling simulation of critical real-time systems in Ada and Java, cutting down highly the simulation duration. Intented for use by, among others, the European Space Agency and Airbus.

Real Time & R&D Ada Software Engineer

@Ellidiss Technologies

ellidiss.com

Article

Report

Trading Bot

Backend

Designed a crypto-trading bot with adaptative strategies in C++ for a client with the API wrappers, trades optimizations and backtesting. Redesigned the thing in Go, allowing easier parallelism for more fun and obviously, profit.

C++ Software Engineer / Backend Go

@Freelance

Medical Diabete App

Backend & Mobile / Embedded

Team-based software development of an Android & desktop Java app, for a system of remote monitoring of diabetes patients at risks with response-alert system connected to doctors.

Mobile / Embbeded Software Engineer

@CNRS Research Facility

Robot Guidance Unit

Robotics / Embedded

Developped a fuzzy controler guidance unit for small robot allowing it to find its way to a determined target while avoiding obstacles on its own path.

Embedded Software Engineer

@CNRS Research Facility

Linux Kernel SSD

System

Improved Linux's prefetching algorithm for SSD's by designing a C machine learning system cutting by 50% I/O workload.

System Software Engineer

@CNRS Research Facility

Technical Skills

Languages

C/C++

Ada

Java | Kotin for Android

Go

Objective-C | Swift for iOS

Rust

Asm ARM / x86

Protocols

Bluetooth

RFID

I2C

RS232

TCP / IP

USB

Database

MySQL

SQLite

Access

PL / SQL

Modelisation

UML

MVC

POO