Yoan Dumas

Embedded systems engineer

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◉ *Yoan Dumas*
Car and motorcycle driving licence

Professional experiences

Current job since 2017
Head of embedded systems, *EyeLights*, Labège.
Development of Head Up Displays for car and motorcycle applications.
- Development of *C* drivers and applicative firmware in an embedded and *soft real time* environment, versioned thanks to *git*.
- Management of projects and freelancers thanks to agile method *SCRUM* and continuous integration.
- Looking for partners, components providers.

2014
3 years
Coworker, Embedded C developer, *AUSY*, Toulouse, for INTEL.
Development of connected glasses dedicated to sportsmen with voice command and coach audio feedback.
- Development of *C* drivers in an embedded and *soft real time* (FreeRTOS) environment, versioned thanks to *git*, on several cores: Cortex-M4 (STM32F429), Cortex-M0 (NRF51422), x86 (Intel Quark) and ARC.
- Scripts developments in *bash* and *python*.
- Agile method *SCRUM*, international working environment.

2014
10 months
Embedded C developer, *SCHILLER France SAS*, Wissembourg, R&D Department.
Development of *C* applicative firmware for *ARM9* (i.MX28), medical emergency and diagnostic domain.
- *C* development in *embedded linux*, versioned thanks to *git*.
- Scripts development in *bash* and *shell*.
- Intervention at all levels of *V model*.

2013
6 months
Trainee: simulation and car modelization, *Continental Automotive*, Toulouse, R&D Department.
Setup of the AGeSys project, automotive industry domain.
- Installation of a version management system: *SVN* for the team.
- *FMI cosimulation* with *AMESim*, *SCADE Suite*, *Simulink* and *Xcos*.
- *SysML* modeling to ease exchanges between *extended enterprises*.

2012
5 months
Trainee: embedded C developer, *DUFOURNIER Technologies*, Riom, R&D Department.
Migration of an existing RMS system in C to *ARM Cortex-M3*, automotive competition domain.
- Development in *C* of the RMS with mbed environment: *embedded linux*.
- Development of a 3D tire modeling software in *Java*.

Education

2015   **Training on peripheral driver development for Linux kernel**, *free electrons*.

2013   **Functional Programming Principles in Scala**, *coursera*, (MOOC).

2010–2013   **Embedded systems engineer diploma**, *ISIMA (Institut Supérieur d'Informatique de Modélisation et de leurs Applications)*, Clermond-Ferrand, Embedded systems specialization.

2008–2010   **Diplôme Universitaire et Technologique in computer science**, *IUT de Rodez*, Rodez.

2008   **Baccalauréat S**, *Lycée Jean Jaurès*, Saint Affrique, Option Sciences de l'Ingénieur.

Knowledges

Softwares   *vim*, Eclipse, git, gcc, gdb.   **Languages**   *C*, C++, Qt, Java, bash, python, Scala.

Languages   French native, *English* fluent (TOEIC 865).

Projects
- Send GPS data from a motorcycle through WiFi in *soft real time* thanks to a RASPBERRY PI in *Java*.
- Pilot a WifiBot equipped with virtual reality stuffs in *C++* and *Qt*.

Hobbies

Sports: Savate boxe française, bicycle, running.   **Others:**   Moto, mecanical sports, music.