Julien Masson

27 August 1990

Antibes, France

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Education

Engineering School

ESEO - Electronics/Informatics

Sept 2008 – June 2014

Angers, France

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A Level of Sciences

Sacre Coeur

Sept 2005 – June 2008

Angers, France

Languages

French	Native
English	Full professional
German	Elementary

Personnality

Friendly | Open-Minded

Hard-Worker | Autonomous

Curious | Creative

Programming

C	●●●●●●●○
Lisp	●●●●●●○○
Git	●●●●●●○○
Python	●●●●●○○○
Bash	●●●●●○○○
C++	●●●○○○○
Perl	●●●○○○○

Embedded System Engineer

EXPERIENCE

Linux Developer   Facebook

August 2018 – Ongoing   Sophia Antipolis, France

February 2018 – August 2018   Silicon Valley, United States

I joined the Oculus Team at Facebook as linux developer. I am working on stand-alone VR Headset and more particulary on the bootloader part of the Oculus products.

- Skills involved:
  → Understand bootloader architecture
  → Collaborate with the team
  → Develop features and fix bugs
  → Write unit tests
  → Suggest improvements

Project environment:
- Phabricator
- Facebook Intern Utils
- Android

Software tools:
- Emacs
- Python tools: flake8, pylint ...

Technical skills:
- Low-level programming
- Security Architecture
- Unit tests

Programming languagues used:

C | Bash | Python | Lisp

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Linux Developer   Intel

April 2017 – January 2018   Silicon Valley, United States

August 2014 – April 2017   Toulouse, France

I have been working during 4 years at Intel on android platform, collaborating with people in USA, India, China and Europe. I worked mainly on smart watches like Fossil Q Founder and Tag Heuer Connected but also on Google Smart TV, Intel's phone ...

- Technical specialist of these subjects in the team:
  → Power up/down process
  → Provisioning and systems update
  → Flashing and boot process
- Developer/Maintainer of this software components:
  → Bootloader and some Intel firmware
  → Recovery OS, Provisioning OS, Manufacturing OS (Android linux)
- Support for manufacturing in Malaysia (2 bring-up of one month)

Project environment:
- Confluence
- Jira
- Jenkins
- Gerrit
- TeamForge
- Android

Software tools:
- Emacs
- Lauterbach
- GDB
- Strace, Ftrace
- Valgrind
- DebugFs

Technical skills:
- Low-level programming
- Kernel and system programming
- Compilation
- Debugging and tracing
- Automation scripts

Programming languagues used:

C | C++ | Bash | Python | Lisp | Perl | asm x86

End of studies Internship   OpenWide

📅 March 2014 – August 2014   📍 Toulouse, France

My subject was to develop a system for home automation based on the 6LoWPAN network.
Firstly I did state of the art of this technology, build a prototype and develop all software.
Finally all my work was integrated in advanced home automation system called Calaos.

Project environment:
- Yocto
- Contiki OS
- Github
- EFL

Software tools:
- Emacs
- Wireshark
- GDB

Technical skills:
- Microcontroller programming
- System programming
- Cross-compilation
- Network

Programming languagues used:

`C` `C++` `Bash` `Lisp`

OPEN-SOURCE PROJECTS

• Windows Manager for Linux

My windows manager are minimalist floating/tiling WM. The first WM has been written over the XCB library and the latest one is a Wayland compositor based on wlroots.

I decided to write my own windows manager for several reasons:

➡ Control the behavior of my windows on linux

➡ Improve my linux programming with the language C

➡ Use these projects as a source code base

GitHub

My projects are public and available on github:
https://github.com/JulienMasson/jwm
https://github.com/JulienMasson/jwc

Library:
- XCB
- Cairo
- Pango

Software tools:
- Emacs
- GDB
- Coding style tools

Technical skills:
- Middleware programming
- Graphics Architecture
- Documentation

Programming languagues used:

`C` `Bash` `Lisp`

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• Emacs contributions

Emacs is one of the tools that I used the most. I regularly contribute to emacs modules, It allows me to be fast and efficient at work.

As a software developer I use Emacs for:

➡ Source code: browsing, indexing, completion, compilation ...

➡ Front-end tools: ssh, gdb, git, grep ...

➡ Extra: instant messaging, mail reader/sender ...

Emacs lisp projects:
`https://github.com/JulienMasson?tab=repositories&language=emacs+lisp`

MISCELLANEOUS

🚲 Road Cycling
➡ Daily commute and road trip on weekend

👤 Traveling
➡ Europe: Germany, Spain, England ...
➡ Asia: Japan, Malaysia, Thailand ...
➡ United States: California, Nevada, New York ...

🏀 Basket-Ball
➡ Guard player for 10 years
➡ Official referee for 3 years

🐧 Linux
➡ Follow news (reddit, lwn, phoronix, cnx ...)
➡ Read several documentations