Oscar Forner Martinez

I am a C++ software engineer who likes challenges when working in a project, I really enjoy applying advanced algorithms and data structures to solve problems in an efficient and elegant way. Moreover, I am interested in topics such as Linux Kernel and Compilers.

Experience

2015-Present   **Software Developer at Programming Research Ltd.**

I have been working in a couple of projects during my time at Programming Research.

-**Static analysis of code**: Checks if the code has some patterns that have an *undefined behaviour*, *unspecified in the Standard*, and/or *implementation-defined*.

-**Dataflow analysis of code**: Checks the complexity of methods, pointer problems, memory handling, etc.

In addition, I had to take over two projects to refactor, maintain and add new features.

2013-2015   **Software Engineer at European Bioinformatics Institute**

One of my duties was to create a RESTful service to allow users to query for information about multiprotein complexes.

In addition, I developed an algorithm to cluster biological information from proteins.

2013-Present   **Open Source**

I am actively contributing to open source projects that I find interesting and challenging. Some of my contributions can be found in my **GitHub profile**.

Linux Kernel: I am interested in topics such as **Scheduler** and **Device Drivers**. I am currently taking the **Eudyptula Challenge**.

Prefix Tree Comparison: Compare performance for different *Trie*, *Ternary Search Tree* and *Radix Tree*.

ARM C Compiler (ACC): I am creating a **self-hosting compiler** for **C** in the **ARM** architecture.

Courses

April 2016   **LFD331: Developing Linux Device Drivers**; Linux Foundation

March 2016   **LFD320: Linux Kernel Internals and Debugging**; Linux Foundation

August 2015   **Agile for developers**; Accelerate

Education

2010-2013	**Bachelor of Engineering in Computer Science**; Universitat Jaume I (Spain)
	Advanced Data Structures, Compilers and Interpreters and Distributed Systems
2006-2010	**Associate Degree in Computer Science**; Universitat Jaume I (Spain)
	Operating Systems, Real Time Operating Systems and Embedded Systems

Programming Languages

C++	3 year experience using **C++11/14** and **Boost**.
C	3 year experience.
ARM	A few months of experience.
Python and Bash	Good knowledge with scripting purposes.

Technical Skills

Methodologies	**Design Patterns**, **Object Oriente Programming/Design**.
Agile	**Scrum**, **Kanban**, **Code Review**, **Pair Programming** and **TDD**.
Unit Test	**Google Test**, **Google Mock**, **Unity** and **FFF**.
Libraries	**Boost**, **Protocol Buffers** and **LLVM**.
Debugger	**GDB**, **LLDB** and **Mozilla rr**.
Build	**Make**, **CMake**, **Maven** and **Gradle**.
CI	**Jenkins** and **Travis**.
VCS	**Git**, **Subversion** and **Mercurial**.
Tools	**Cling**, **Clang-tidy**, **Clang-modernize**, **Clang-format**, **Ctags** and **Cscope**.
Analysis	**Clang-sanitizer**, **PRQA Framework**, **Coverity**, **Perf** and **Valgrind**.

Languages

Spanish	Native
English	Fluent

oscar.forner.martinez@gmail.com

+44 (0)75 96944383

Blog: http://maitesin.github.io/

LinkedIn: https://www.linkedin.com/in/oscarforner

GitHub: https://github.com/maitesin

283A Hersham Road - Walton-on-Thames, KT12 5PZ