

Helder Correia

Software Engineer 12 years 4 countries

C++ Python JS Shell Qt HTML5 Linux Android
Git CMake UI Middleware Server-side Open-source

CONTACTS

hecsw@tuta.io
(+351)936391863
<http://heldercorreia.net>

EXPERIENCE

Sabbatical — Full-time dad of 3

APRIL 2016 - Present

Self-employed 🏠 Madeira Island, PT 🇵🇹 — Sw. Eng.

JUNE 2015 - MARCH 2016

Remote freelancer for Samsung, same below functions, +8h TZ.

Inabit Software Amsterdam, NL 🇳🇱 — Sw. Eng.

AUGUST 2014 - MAY 2015

Remote consultant for Samsung, same below functions, +9h TZ.

SAMSUNG Silicon Valley, CA 🇺🇸 — Principal Eng.

MARCH 2014 - JULY 2014

Lead UI design and development, wrote desktop simulator, initial build system and some middleware of Simband, next-gen health-tracking wristband (video) with world's first open-reference Hw. sensor module.

C++, OpenGL ES, Embedded Linux, CMake

NOKIA Silicon Valley, CA 🇺🇸 — Principal Sw. Eng.

MAY 2012 - MARCH 2014

Bootstrapping of WebKitNix (POSIX and OpenGL-based WebKit port) for powering a novel web runtime-based mobile device (unreleased).

C++, OpenGL ES, WebKit, Embedded Linux, CMake

hp palm Silicon Valley, CA 🇺🇸 — Senior Sw. Eng.

APRIL 2011 - MAY 2012

Released HP Touchpad tablet device running webOS 3 mobile OS at the Palm division. Focused on WebKit-based web runtime rendering. Fastest HTML5 Canvas implementation on mobile at time of release.

C++, Qt, WebKit, HTML5, 2D Graphics, Embedded Linux

SUMMARY

Been a permanent employee, consultant and remote freelancer, ranging from small start-ups to huge corporations in four countries. Large experience with professional and hobby-level **open-source** software. Leads SpeedCrunch scientific calculator with almost 1M downloads. Code, demos and tools available on website and blog.

EDUCATION

FCT 🇵🇹 New University of Lisbon / Faculty of Sciences and Technology, Lisbon, Portugal 🇵🇹 — **5-year degree in Computer Science and Engineering**

JANUARY 2006

LANGUAGES

- 🇵🇹 Portuguese (native)
- 🇬🇧 English (proficient)
- 🇪🇸 Spanish (advanced)
- 🇫🇷 French (elementary)
- 🇳🇴 Norwegian (elementary)

Sencha Silicon Valley, CA  — *Principal Eng.*

AUGUST 2010 - APRIL 2011

Added support for CSS [box-shadow](#), [text-shadow](#) and [Canvas shadows](#) in [QtWebKit](#), web runtime used by Sencha [Architect](#). Wrote open-source [tools](#) to aid Sencha [Touch](#) development on Android: event recorder with playback capabilities ([video](#)).

C++, Java, Python, JavaScript, WebKit, Qt, Android, HTML5

QUALCOMM San Diego, CA  — *Sr. Eng.*

JANUARY 2010 - AUGUST 2010


Researched graphical optimizations in Google Android's web browser running on Qualcomm's chipsets. Wrote 2D performance benchmarks for Android's [WebKit](#) implementation and Qualcomm's graphical chipsets.

Java, C++, Android, Skia

NOKIA Oslo, NO  — *Sr. Support Eng.*

JUNE 2008 - APRIL 2009

Same below functions after acquisition of Trolltech by Nokia.

TROLLTECH Oslo, NO  — *Support Eng.*

APRIL 2008 - JUNE 2008

Resolved incoming support requests from commercial customers of [Qt](#) cross-platform framework. Advised best practices and design, wrote customized examples, found workarounds for blocking issues. Main supporter of [Qt for Embedded Linux](#). Authored technical [article](#) on adaptive coloring for syntax highlighting for [Qt Quarterly](#) publication.


C++, Qt, Linux, Embedded Linux

UDP Oslo, NO  — *Consultant*

APRIL 2007 - MARCH 2008

Designed and implemented real-time seismic data processing library at [UDP](#)'s client [Schlumberger WesternGeco](#).

C++, Solaris, Linux

SIEMENS Lisbon, PT  — *Sw. Developer*

SEPTEMBER 2005 - MARCH 2007

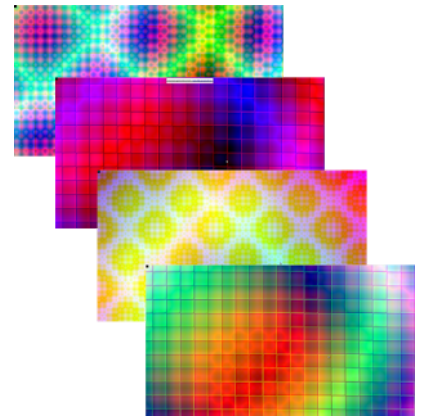
Designed and implemented server-side real-time software for carrier grade telecommunications platforms. Division later acquired by Nokia to form Nokia Siemens Networks.

C++, Embedded Linux, RTOS, UMTS

ARTICLES

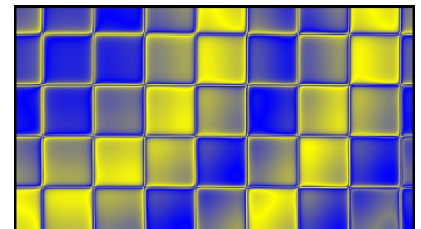
[Iris: more HTML5 Canvas pixel manipulation fun](#)

DECEMBER 2012



[Pixel Manipulation: Qt vs. HTML5 Canvas](#)

OCTOBER 2010



[Adaptive Coloring for Syntax Highlighting](#)

Q2 2008

