

# Lucía Andrea Illanes Alborno

Email	Mobile phone number	Address	Nationality
lucia@luciaillanes.de	+49 1623 714 810	Nagelsweg 16, 20097 Hamburg, Germany	Chilean, German
GitHub	Website		
<a href="https://git.io/vS4CG">https://git.io/vS4CG</a>	<a href="https://www.luciaillanes.de/">https://www.luciaillanes.de/</a>		

## Software development

Programming areas	Systems & network programming on Linux, *BSD & Windows
Languages and tools	C, Tcl, BSD & GNU development environments, gdb, Qemu; amd/x86 & MIPS assembler, C++, Lua, Python & WinDbg: some experience

## Systems engineering & system administration

Platforms and servers	Debian/-derived Linux, Free/Net/OpenBSD, ircd-hybrid, nginx
Scripting and automation	Ansible, Bourne/Bash/Z shell, BSD rc, systemd, Perl, rsync
Roles and technologies	iptables & pf-based firewalls, IPsec & OpenVPN, LXC & cgroups, ZFS

## Project involvement

Feb. 2016-ongoing	<b>midipix_build: build/cross-compilation infrastructure for midipix, a POSIX/Linux-compatible development/runtime environment for Windows</b>
	<ol style="list-style-type: none"><li>1. Automatically cross-builds ca. 300 packages covering the toolchain, runtime components &amp; 3rd party software.</li><li>2. Written in reasonably portable Bourne shell, ca. 1500 SLOC, pragmatically lightweight &amp; modular.</li></ol>
Nov. 2016-Dec. 2016	<b>Tcl TIP #458: design and implementation of epoll/kqueue support in the Tcl notifier on Linux/*BSD, resp. for Tcl, a high-level, general-purpose, interpreted, dynamic programming language (FlightAware bounty programme)</b>
	<ol style="list-style-type: none"><li>1. Tcl's original event-based architecture based on select(2) had scalability and code complexity concerns.</li><li>2. On Linux/*BSD, epoll/kqueue is now used instead, which eliminates a major bottleneck in event-heavy code.</li><li>3. Code complexity was reduced as the code is no longer unnecessarily multi-threaded, without breaking multi-threaded Tcl or C code.</li></ol>

## Languages (internally assessed unless otherwise noted)

Paternal language	Spanish (CEFR: C1)
Maternal language	German (CEFR: C1)
1st foreign language	English (CEFR: C1; at Colón Language Center Hamburg: A)
2nd foreign language	Classical Arabic, some dialects (CEFR: A2)

## Educational career and life abroad

2014-Jan. 2017	Hamburg: in pursuit of secondary education Deutsche Angestelltenakademie: MSA ( <b>equiv. to GCSE in the UK</b> )
2013	Northwestern Spain: Way of St. James
2011	Viña del Mar, Chile: freelancing IT jobs
2005-2008	Valparaíso & Santiago, Chile Studied Arabic & Spanish languages and cultures
2003	<b>Sasol Germany, Hamburg (Internship)</b> Internal help desk/support on Windows platforms
2002	<b>Compaq Computer Corporation, Hamburg (Internship)</b> Corporate customer support on OpenVMS platforms
2001-2004	Integrierte Gesamtschule Walddörfer, Hamburg