Ardelean Alexandru-Aleodor

Embedded SW/Linux Kernel Engineer

Contact details

Email: ardeleanalex@gmail.com

Phone: +40745307413

Location: Cluj-Napoca

About Me

Embedded software developer, primarily skilled in C, shell, some Python, some automation, and some various other topics.Contributor to various open-source projects (Linux kernel, OpenWrt, and other).

Github profie: https://github.com/commodo/

Linux kernel contributions: roughly 1400+ (code contributions and reviews, I had some links in my resume, but I removed them because they tend to break too often)

Professional Experience

May 2022 - Present	**Freelancer/contractor for Embedded/Linux projects** Role: ¯_(ツ)_/¯ Location: Cluj-Napoca Clients: • Allegro DVT (through Deviqon Labs): continue work on emulator for HW IP designs • BrightGrove (consultancy group): develop platform for a new line of smart TVs (for a customer of BrightGrove)

March 2021 - Present	**Deviqon Labs**
	Role: Senior Software Engineer
	Location: Cluj-Napoca
	
	• Write software aimed at services for the streaming & television industry
	• Clients:
	  ○ Ateme (acquired Anevia): create and extend software for video/audio/TV streaming and DRM
	  ○ Allegro DVT: create emulator for a HW IP designs (for video decoders)

December 2017 – February 2021	**Analog Devices Gmbh**
	Role: Linux Kernel Engineer Location: Cluj-Napoca
	Role includes: • Work on Linux kernel drivers for Analog Devices parts (ADCs, DACs, accelerometers, IMUs) • Work and enhancements (to the Linux kernel) to better support Analog Devices parts • Continuously interact with Linux kernel community by submitting changes to the Linux kernel • Internal code review for new changes being added to the Analog Devices kernel repository
	Boards/carriers used: • Xilinx Zynq 7 series: ZedBoard, ZC706, ZC702 • Xilinx ZynqMP series: ZCU102, ZU11EG • Intel/Altera Arria10 SoC
	Links: https://github.com/analogdevicesinc/linux/commits?author=commodo https://patchwork.kernel.org/project/linux-iio/list/?submitter=178229
2016 - Present	**Co-maintainer of the mstpd package** Role: Co-maintainer Location: Github
	Co-maintain the mstpd package/code-base (Multiple Spanning Tree Daemon) with other developers
	https://github.com/mstpd/mstpd/commits?author=commodo
2014 - Present	**Open-source contributor to OpenWrt** Role: contributor Location: Github / git.openwrt.org
	OpenWrt is an embedded Linux distribution for routers.
	Contributor of various patches to core OpenWrt. https://github.com/openwrt/openwrt/commits?author=commodo
	Maintainer of a few packages in the packages feed: https://github.com/openwrt/packages/commits?author=commodo
January 2014 – December 2017	**Ocedo / Riverbed Technology** Role: Embedded Software Engineer Location: Cluj-Napoca
	Riverbed acquired Ocedo (which was a small networking startup based in Karlsruhe Germany).
	Develop and maintain software modules and drivers for network gateways, switches and access-points.
	• Integration of 3G/4G connectivity in gateways

- Integration of Spanning Tree (STP) and Link-Layer Discovery (LLDP) protocols in switches
- Support for some Broadcom switch chips
- Internal code reviews

April 2013 – January 2014	**Betfair.com** Role: DevOps for internal tooling Location: Cluj-Napoca Maintenance & support for internal tools: Gitlab, Perforce, SVN, Jenkins, Atlassian (Confluence, JIRA, Fisheye), Fortify. Automation of deployment processes using various tools (Jenkins CI, Chef, Puppet).
November 2012 – April 2013	**EBS Romania (currently NTT Romania)** Role: Embedded Software Engineer for Automotive Location: Cluj-Napoca Develop SW & documentation for Continental Automotive for various work on instrumentation clusters.
August 2011 - November 2012	**NSpyre Romania (currently Capgemini Romania)** Role: Softwre Engineer Location: Cluj-Napoca Write software modules & documentation for controlling highly complex industrial machines, for ASML (https://www.asml.com/en)
March 2007 – August 2011	**National Instruments Romania** Role: Software Engineer Location: Cluj-Napoca

- Primarily worked on Pharlap (RTOS)
- Write drivers for ethernet cards for PXI products for the Pharlap OS
- Develop & maintain the TCP/IP stack on the Pharlap
- Add advanced debugging features to Pharlap OS to better debug network issues
- Maintain LabVIEW network primitives across Windows, MacOS, Linux, Pharlap and VxWorks operating systems

Education

2003 - 2008	**Technical University of Cluj-Napoca** Computer Science Department (English Section)
1999 - 2003	**"Mihai Eminescu" High School – Satu Mare** Mathematics and Informatics (English Section)