Ardelean Alexandru-Aleodor

Linux Kernel Engineer/Hacker

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:

https://lore.kernel.org/patchwork/project/lkml/list/?series=&submitter=24468&state=&q=&archive=both&delegate=

Professional Experience

December 2017 - Present	**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. Ocedo was small startup company based in Karlsruhe Germany focused on developing new technologies for better managing medium-to-large scale computer networks. My role was to develop and enhance software modules and drivers for network gateways, switches and access-points. This covered: • Integration of 3G/4G connectivity in gateways • Integration of Spanning Tree (STP) and Link-Layer • 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 EBS was contracted by Continental Automotive for various work on instrumentation clusters.

August 2011 - November 2012	**NSpyre Romania (currently Altran Romania)** Role: Softwre Engineer Location: Cluj-Napoca

NSpyre had contracts with ASML (
https://www.asml.com/en)
My role involved:
- Writing complete specification documentation based on draft specification from ASML
- Writing test documentation for the software module in the specification
- Developing software module (usually in Python) using Matlab test files for input and output values
- Re-iterate process (as needed) once the code was tested on a physical machine

March 2007 – August 2011	**National Instruments Romania** Role: Software Engineer Location: Cluj-Napoca

Role included:
- Primarily worked on the Pharlap operating system, which is an RTOS derivative from the old DOS
- Writing drivers for ethernet cards for PXI products for the Pharlap OS
- Developing, maintaining and fixing bugs on the TCP/IP stack of the Pharlap OS
- Adding advanced debugging features to Pharlap OS to better debug network issues
- Ensure that integration of the Pharlap OS works with LabVIEW
- Maintain and fix bugs in LabVIEW network primitives
- Ensure that LabVIEW primitives work consistently 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** Mathematics and Informatics (English Section)