

Ardelean Alexandru-Aleodor

Linux Kernel Engineer/Hacker

Contact details

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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 profile: <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 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: Software 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)