

# Ardelean Alexandru-Aleodor

Embedded SW/Linux Kernel Engineer

## Contact details

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**Location:** Cluj-Napoca

## About Me

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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:

- As an employee at Analog Devices:
  - <https://lore.kernel.org/patchwork/project/lkml/list/?series=&submitter=24468&state=&q=&archive=both&delegate=>
- While employed at Deviqon Labs:
  - [https://lore.kernel.org/patchwork/project/lkml/list/?series=&submitter=30214&state=\\*&q=&archive=both&delegate=](https://lore.kernel.org/patchwork/project/lkml/list/?series=&submitter=30214&state=*&q=&archive=both&delegate=)

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## 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

### Devigon 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](https://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: Software 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**

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**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)