





# ANTONIU MICLĂUȘ

S O F T W A R E   E N G I N E E R

-  +40747036533
-  antoniu.miclaus@gmail.com
-  Cluj-Napoca, Cluj, Romania
-  [Linkedin](#)

## LINKS

### LINUX KERNEL CONTRIBUTIONS

### GITHUB

### GOOGLE SCHOLAR

## SKILLS

- Embedded C
- Linux Kernel
- Shell Scripting
- Continuous Integration
- Test Automation
- Python
- Project Management Tools
- Strong Communication

## PROFILE

Versatile Software Engineer with 5 years in designing and maintaining electronic devices software. Talented at coding software and diagnosing problematic embedded systems. Specialized in embedded drivers and systems.

## EXPERIENCE

### SENIOR SOFTWARE ENGINEER

Analog Devices

2022 - Present

- Develop Linux device drivers and upstream patches into the Linux Kernel.
- Provide Python-based testing procedures for Linux drivers.
- Create GTK based plugins for GUI application that exposes Linux/no-OS drivers functionality.
- Provide guidance and insight to new hires.

### SOFTWARE ENGINEER

Analog Devices

2019 - 2022

- Develop Linux device drivers and upstream patches into the Linux Kernel.
- Develop no-OS drivers for ADI products (data converters, instrumentation amplifiers, microwave converters, clock providers) and provide application examples in conjunction with Xilinx embedded systems, ADuCM3029 microcontrollers and Rpi.
- Create reference design projects for ADI products.
- Responsible of Continuous Integration/Continuous Development workflow of several Analog Devices repositories.

---

## LANGUAGES

- English - Advanced
- Romanian - Native

### SYSTEM APPLICATIONS ENGINEER

Analog Devices

2017 - 2019

- Board Farm prototype implementation (Jenkins Server-Based System).
- Design and implement student-targeted educational content using hardware and software tools provided by Analog Devices.
- Responsible of a small testing team, organizing testing procedures for internal software tools.
- Manual software testing, test case implementation and bug tracking of signal analysis software tools.

### RESEARCH ASSISTANT

Technical University of Cluj-Napoca

2016 - 2017

- "Thermal management of System-on-Chip devices used in satellite systems under low temperature conditions" research paper using Solidworks design software.

## EDUCATION

### MASTER'S DEGREE, SOFTWARE ENGINEERING

Babeş-Bolyai University, Cluj-Napoca

2017- 2019

- Board Farm prototype that used Server-based system that performed continuous builds, test automation and test results process, tracking the changes into the system and automatically test and report the changes.

### BACHELOR OF ENGINEERING, ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY

Technical University of Cluj-Napoca

2012 - 2016

- Software implementation referring to an indirect Tire Pressure Measurement System (iTPMS) based on the Anti-lock Braking System (ABS) present in a car.