





ANTONIU MICLĂUȘ

SOFTWARE ENGINEER

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

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.

LINKS

[LINUX KERNEL CONTRIBUTIONS](#)

[GITHUB](#)

[GOOGLE SCHOLAR](#)

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

2018 - 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.

SKILLS

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

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.