BOGDAN CUPSA

SOFTWARE DEVELOPER ⚲ CLUJ-NAPOCA, ROMANIA ☎ 0758544132

DETAILS

Cluj-Napoca
Romania
0758544132
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LINKS

Python Projects

Linkedin

SKILLS

C

Python

Django

Embedded

Real time operating systems

Assembly

Git

Docker

LANGUAGES

English

HOBBIES

Running
Movies
Racing
Embedded

PROFILE

Passionate software developer with interest in embedded C and in new technologies. Python and computer networks enthusiast. Currently a 4th year student in Computer Science.

EMPLOYMENT HISTORY

Software Developer at AROBS, Cluj-Napoca
January 2023 — Present

In my first project, we had to update the cybersecurity for an ECU. These updated had to be done for both UDS and CCP protocols. I mostly worked in the implementation of hashing algorithms in C. I made a custom these algorithms in such a manner that they don't affect the tasks preemption. After the implementation, I tested the code using CAPL test framework and CANOE. I have documented and written test cases documentation.

In my second project, I had to configure and implement an AUTOSAR Watchdog. I used tresos for configuration of the watchdog driver, interface and manager. I added additional code for the functions required by the module. I used tools like RTA-OS and a bit of RTA-RTE. I used CANOE for testing. I implemented custom debugging code. I developed new skills and learned more about AUTOSAR and the operating system used in automotive field.

During the summer, I was a mentor for the new intern colleague. He had to develop a C project using V-Cycle methodology. I assisted him in his automotive ramp-up.

Embedded C intern at AROBS, Cluj-Napoca
October 2022 — December 2022

I have implemented a light control unit in C. The project structure was similar to the one of an automotive project. I used V-Cycle methodology to develop the software. I have written the requirements, designed the architecture, implemented the code in C and perform unit and validation tests. I worked closely to my colleague. We also made some presentations about the theoretical part of the automotive field. We used github for version control.

EDUCATION

Engineer, Technical University of Cluj-Napoca, Cluj-Napoca
October 2020 — Present

I am currently in the 4th year of study in the Computer Science department. My diploma project is in the field of automotive focusing in high speed communication between ECUs in the context of Adaptive Autosar. The majority of my projects were implemented in python (web development, desktop applications, image processing, computer networks). I used django for web development and angular for frontend. For the desktop applications I used python with PyQt5 and Tkinter.