Michał Kucharz

Curriculum Vitae

🌐 github.com/chromatic-aberration
✉ michal.ku@op.pl
📞 +48 731 844 961

PROFILE

Place and Date of birth:
Krakow, Poland, 05.10.1997

Address:
ul. Spokojna 21/9
30-054 Kraków

Languages:
Polish: Native
English: C1

Availability:
Full time

SKILLS

Python3: Advanced

Python2: Intermediate

C/C++: Intermediate

SQL: Intermediate

AVR assembly: Beginner

Additionally:
Git, Agile, REST API, MQTT, Websocket, Linux, multimeter and soldering

basic knowledge: embedded systems (experience with Arduino, Raspberry Pi Pico (ARM) and FRDM-KL05Z - Cortex M0+), electronics, networking, MATLAB and Adobe Photoshop

STUDIES & WORK

Mikołaj Kopernik Brzesko High School 2013-2016
profile: Mathematics - IT - Physics

AGH University of Science and Technology
F. of Physics and Applied Computer Science 2016-2017
    major: Applied Computer Science (polish)
F. of Computer Science, Electronics and Telecoms since 2017
    major: Electronics and Telecommunications (english)

Internship: FUH Climax Rafał 2017
Fibre optics installations, computer repairs, installing and configuring home networks.

PERSONAL PROJECTS

Chat Bot (Python)
Bot using Discord web communicator's API, contains variety of commands and features such as interactive multiplayer Uno game. Utilising i.e.: asyncio, sqlite, logging, json, requests and pillow.

ARM Space Invaders (C)
Custom version of retro game Space Invaders. Written for FRDM-KL05Z microcontroller with video output via SPI interface. Controlled using Python script on pc communicating with the board using UART over USB.

MQTT Smart Home (Python, JS)
Network of IoT devices communicating with each other using MQTT protocol. Web Interface (using JQuerry) running on Raspberry Pi with monitoring and control of connected devices, like programmed with MicroPython Raspberry Pi Pico or Python program acting as additional clients with paho-mqtt library.

Chess & Checkers (C++, Java)
C++ CLI chess, later rewritten to Java with GUI using Swing.