CV - Mróz Krzysztof

Contact: **514-185-121** // **private@mrozo.pl** // **mrozo.pl**

Experience

- 2021 IV - NOW() - **Senior Embedded developer** at **Assa Abloy**.
  - Development of secure communication stack for IOT and firmware update.
  - **Tech stack**: C, cmake, EDHOC, OSCORE, coap, cbor, NRF52/NRF53, Zephyr, freeRTOS, BLE, Node.js, python.

- 2019 III - 2020 XII - **Embedded Developer** at **R.S.X./KAYON**.
  - Creating BLE based communication protocol, lots of device drivers, embedded GUI widgets.
  - **Tech stack**: STM32, C, make, BLE.

- 2016 VII - 2019 II - **Python Developer** at **ADVA Optical Networking**.
  - Developing backend in Tornado, libraries and doing research for other teams to speed up development and testing.
  - **Tech stack**: python, Tornado, robot framework.

- 2016 I - 2016 VI - **Dveloper** at **SDC**
  - Development of automatic test suite and desktop GUI for microserver.
  - **Tech stack** python, chromium embedded framework, JS, RS485.

- 2014 XII - 2015 XII - **UEFI BIOS Developer** at **Intel**.
  - Developing own driver for Intel ME remote sata secure erase.
  - **Tech stack**: C, UEFI.

- Other side jobs/one offs: **Technician** at **events and concerts** - setting up, taking care of multimedia hardware, few small **web pages**.

Technical skills

- **Senior**: C programming, OSCORE (Object Security for Constrained RESTful Environments), EDHOC (Ephemeral Diffie-Hellman Over COSE), CoAP, CBOR.
- **Mid**: zephyr, FreeRTOS, Python, make, cmake, bash, ARM - STM32/NRF52/NRF53, OSCORE, EDHOC, BLE.
- **Junior/hobby**: - Linux server administration, KiCad, arduino/esp32, PHP, MySQL, FreeCAD.

Education

- 2010 - 2014 - **Bachelor of Electronics and Telecommunication** at **WETI PG**.

Soft skills

- **ability to manage** and **organize** short project-oriented small teams - eg. Sierpień Opensource was a 2 month, seventeen person project meetup created by me.
- Self taught technology teacher and community animator.

Hobbies/Other

- Long time active member of **Hackerspace Pomorze**, for some time I was even a **Board Member**.
- Spreading technical knowledge and : and conducted dozens of technology related workshops, presentations, hackathon in cooperation wit Robotics Society Skalp, - eg. IOT with rpi zero W at **Woodstock**, IOT workshops using esp32.
- I am **Linux guy**, in love with UNIX philosophy.
- Interested in creating whole solutions - starting from electronics, through embedded software all the way up to system/PC/cloud integration.
- I've been a scout, ice hockey player, rugby player, cat lover and now even 32 year old unofficial member of a students scientific association of operational oceanography.