

Andrej Manduch

GEEK FREE SOFTWARE ENTHUSIAST

WORK EXPERIENCE

SW/HW DEVELOPER

May 2021 - June 2023 @ EGMMedical/EGMenergo s.r.o.

- Worked on bunch of small projects. Mostly writing firmware for small scientific devices, like special super precise pump, or marine device with a precision ph meter.
- The main project that I work on are delivery boxes. I wrote the whole server side, managing web in angular, parts of frontend in boxes itself.

VERIFICATION ENGINEER

September 2018 – October 2020 @ Mavenir Systems Czech Republic s.r.o.

- Testing MMS and media transcoder telecommunication software
- Managing infrastructure for our team, jenkins, OpenNebula, Ansible scripts.

KERNEL QUALITY ENGINEER

March 2014 - Jun 2018 @ Red Hat Czech s.r.o.

- I was responsible for writing and maintaining various tools which test and stress different parts of the Linux kernel.
- Most of my responsibilities were managing and writing tools for testing RAS, memory corrections.

SYSTEM ADMINISTRATOR

December 2012 - December 2013 @ Digmia s.r.o.

- Responsible for maintaining Linux and Solaris servers.
- Technical owner of about 20 mail servers.
- I was responsible for one of the biggest free mail providers in the republic, and I gained a lot of experiences.

VOLUNTEERING AND COMMUNITY

XLC TEAM

(~ 2014)

I was active as a teacher and a tutor for XLC Team which is a robotics team from Slovakia. I'm no longer active but I'm still in touch with the community and helping whenever it's possible.

PROGRESSBAR

(~ 2011 - 2013)

Slovak hackerspace in Bratislava. If I could name one project, once I made one-wire implementation for ATTiny, which I used for opening doors on some apartment buildings.

TOR OPERATOR

I'm running Tor relays for more than 8 years. Some years I do small fundraiser amongst friends to get money for running several relays. Some years I just run one from my apartment.

OTHERS

There are plenty of software or art project that I contributed to but nothing major or outstanding.

Examples:

- irqbalance - <https://www.freelists.org/post/irqbalance/journal-logging-patchset-resend>
- systemd - <https://cgkit.freedesktop.org/systemd/systemd/commit/?id=70af7b8ada>
- pfs - <https://github.com/ipfs/kubo/pull/10163/commits/5e47c8cc967e0409249b156e868249a227e40e8f>

And much more. Basically whenever I encounter bug in FOSS I fix or report it.

CONTACT

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EDUCATION

Theoretical Computer science at UNIBA - dropped out after 2 years

Highschool at Stara Tura • 2006 - 2010

SKILLS

LANG

C, Python, Bash, Javascript, Tcl, Java, Groovy

NETWORK

Static Routing, OSPF, iptables, OpenVPN, MITMproxy, Wireshark, airmon-ng

LINUX

Bash, iptables, perf, ftrace, systemd/journald/..., apache, nginx, ...

Databases

MySQL, PostgreSQL, Dynamodb, ScyllaDB

Queues

RabbitMQ, ZMQ

AWS

Lambda, Dynamodb, SNS, SQS, Step Function, S3, Cognito, EC2, Boto3

Email

Zimbra, postfix, spamassassin

Monitoring

Zabbix, collectd

DevOps

Ansible, Docker/Podman, Swarm, Serverless, CloudFormation

CI/CD

Jenkins, Avocado, pytest, beaker

Embedded

ESP32/idf, ATmega, ATmini, Xmega, AVR32, STM32, Jocto Project (linux distro builder), OpenWRT