

Research Profile – Edvard Troy B. Lemenkovi■

Business: EDELSON EXECUTIVE ADMINISTRATIONS

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Focus Areas:

- Independent AI R&D
- IT-security testing & Zero-Trust modelling
- Secure mobile architectures with Linux backends
- Bootloader-behaviour analysis & data isolation studies

Infrastructure:

- Arch Linux (KDE Plasma 6) on Lenovo ThinkPad T15p Gen 1
- Intel Core i7-10750H, 32 GiB RAM, Intel UHD Graphics (Wayland)
- Windows 10 dual-boot for flashing/firmware tools
- MikroTik RouterOS segmented network
- Dockerised services for secure automation

Devices:

- Nothing Phone 3a Pro – main mobile endpoint testbed
- Planned: CMF Phone 2 Pro, CMF Phone 1, Nothing Phone (3), Headphones (1)

Research Objectives:

- Safe and reproducible mobile security workflows
- Hardened endpoints interacting with containerised AI stacks
- Firmware/bootloader behaviour in EU/EEA warranty contexts
- Production of documentation, diagrams, and practical hardening tooling