



## Alexei Halaim

Smart Home & Security Systems Integrator

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 **GitHub:** <https://github.com/AlexeiakaTechnik/Alexei-Halaim-PORTFOLIO>

 **Drive (Photo Portfolio):** <https://drive.google.com/drive/folders/1B0h1R6o8KGoRNpjO1Q4JvHz6lWTyOoRs?usp=sharing>

 **Drive (Older CV):** <https://drive.google.com/drive/folders/1TE3CRiEKrZGoU1VGLNqzZVD3949FfZXj?usp=sharing>

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### PROFESSIONAL SUMMARY

Hands-on smart home and security systems specialist with strong skills in Home Assistant, networking (both physical setup and configuration), electrical installation, CCTV systems, alarm setups, and personal R&D project in IoT sensor design. Combining real-world installations for actual clients with a passion for smart system architecture, I bring technical precision, a strong grasp of client needs, and high field adaptability to every smart home, automation, or security project.

### SKILLS

#### Smart Home & Automation:

- Home Assistant system setup, YAML-based automation, custom dashboards for tablet/phone interfaces
- Integration of smart devices: lights, switches, sensors, alarms, cameras, doorbells, solar inverters, valves, locks, ventilation, humidifiers, audio systems, vacuums, computers, network equipment
- Creative integration of non-IoT devices: TVs, ACs, ovens, washing machines, treadmill
- DIY ESP32 sensors: temperature, CO<sub>2</sub>, humidity (Inventor design, 3D printed enclosures, calibration)

#### Security & Surveillance Systems:

- CCTV system design and installation (Hikvision, Dahua)
- Alarm system installation and configuration (AJAX)
- Basic access control systems
- Site surveying, project scoping, and client needs analysis

#### Electrical & Networking:

- Low-voltage electrical wiring (= $\leq$  230V AC), smart breaker installation (Wi-Fi, RCD, AFCI)
- Electrical panel assembly and upgrades
- Wired/wireless network setup (router config, AP deployment, VPNs, VLANs, security)

- Familiarity with pfSense, Mikrotik, TP-Link, OpenWRT, Huawei

### **Tools & Platforms:**

- ESPHome, GitHub (Markdown), 3D printing, soldering, hand and power tools
- CRM systems, documentation and workflow tools

### **Soft Skills:**

- Clear communicator with clients and teams
- Documentation writer and process planner
- Leadership experience (hiring, training, reviewing)
- Calm under pressure, solution-focused

## **CERTIFICATIONS & TRAINING**

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- Low Voltage Electrical Installation Certificate (Evaluation: June 2025)
- 5-day crash course in Autodesk Inventor (2025), instructed by practicing engineer
- HP Sales Certified – BPS Hardware / Workstations 2019
- HPE Sales Certified – Products, Solutions, and Services 2019
- Fortinet NSE 1–3 – Network Security Associate (not examined)

## **LANGUAGES**

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- Russian (Native)
- English (Fluent)
- Romanian (Upper Intermediate)
- Ukrainian (Basic)

## **LOGISTICS & FIELD READINESS**

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- Own a car (B-cat driver's licence), have necessary tools for smart home, security, and electrical installation

## **INTERNATIONAL MOBILITY**

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- Romanian (EU) Passport
- Open to relocation or work travel
- Extensive translator/interpreter experience (consecutive + simultaneous interpretation)

## **EXPERIENCE / PROJECTS**

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### **Professional & Freelance Commercial Experience:**

- CCTV System Installation – Kosmonavtika Café (2025):
  - Installed Dahua CCTV system in a busy café
  - Assessed coverage needs, selected hardware, executed cabling and setup
  - Configured NVR and mobile access, provided client training
- (APPROVED) AJAX Alarm Installation – Kosmonavtika Café (July–Aug 2025):

- Full AJAX system installation with sensor layout, configuration, and app setup
  - Assistance with connection to Rapid Response services
- Full Electrical Montage & Installation – Residential Flat (2024):
- Designed (with client) and installed entire system: panel, breakers, RCDs, cable routing, connection to distribution panel
  - Performed wall grooving, wired the apartment, tested all circuits
  - Did it for certification documentation and portfolio
- System Admin – LIDER Company (2015–2018):
- Maintained full IT infrastructure (offices, warehouse, remote teams)
  - Supported Hikvision surveillance systems, Mikrotik networks
  - Managed AD, 1C, GPS tracking, and production line server integration
  - Operated under ISO 9001 compliance
- Technical Operations & Remote Sales Team Lead – TREKMOVERS (2021–2022):
- Hired to lead phone call/CRM-based remote sales team
  - Rewired entire network (moved from unstable Wi-Fi to full LAN)
  - Optimized CRM, softphone tools, documentation workflows
  - Commissioned AI-driven YELP auto-clicker bot to free sales team from manual work
  - Hired/trained local team of remote sales agents
  - Provided tech support and reliability oversight
  - Occasionally assisted with escalations (under senior mgmt guidance)



### **Personal, Home-Lab, Autodidactic(self-learned) and R&D Projects:**

- ESP32 Sensor Platform (2025):
- Designed CO<sub>2</sub>/temp/humidity sensors with ESPHome, see GitHub Portfolio
  - Used Autodesk Inventor for 3D design, printed and tested enclosures
  - Calibrated, tested, and documented sensor builds (iterations)
- Home Assistant Server – Main Showcase Project (2023–2025):
- Built local-first (less cloud-reliant) HA system with 100+ devices
  - Created custom dashboards optimized for tablets/phones (YAML + some Jinja/CSS)
  - Repurposed old Android phones/tablets into wall-mounted dashboards
  - Major integrations: Google, AJAX (via SIA), TUYA, Dreame, Sonoff, TTLock, Fronius solar, Zigbee, MQTT, more
  - 100+ automations for climate, lighting, alarm, greenhouse, cleaning, reminders, energy
  - Secured with SSL, Cloudflare tunnel, 2FA, brute-force protection
- Electrical Sub-Panel Assembly – Home Lab (2024):
- Built a working electrical panel with smart Wi-Fi breakers and RCD/AFCI
  - Used as part of certification proof-of-skill set
- AJAX Alarm – Home Lab (2023):
- Installed, configured, and tested full AJAX system
  - Designed based on intrusion vectors, tested mobile control
  - Integrated with Home Assistant for full automation
  - Used for training, client presentation, and portfolio