

Andras Lonczkor

Independent Technology Consultant | Technical Delivery Architect
Forward-Deployed Systems Engineer | Technology Generalist

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Technology generalist with more than 20 years of experience delivering systems across Linux, cloud infrastructure, networking, software, edge hardware, and IoT/OT. Strongest in ambiguous, cross-domain projects: establishing what is needed, translating between clients and specialists, and remaining hands-on from discovery and prototyping through commissioning, production support, and handover.

SELECTED IMPACT

- Helped take battery-storage and electric-bus technology from discovery into production, delivering infrastructure that supported direct energy-market participation, charge scheduling, peak shaving, telemetry, and remote management.
- Architected and operated systems spanning approximately **20 sites, 800+ vehicle telemetry devices**, and **900+ concurrent VPN endpoints**, maintaining **greater than 99% availability**.
- Installed and commissioned approximately the first 10 battery-storage sites and six bus-charging sites, integrating IT/OT networks, custom edge devices, cloud services, telemetry, and control systems.
- Served as the principal 24/7 technical escalation point for approximately three years, diagnosing faults across vendor equipment, industrial protocols, networking, AWS infrastructure, and applications.

CORE CAPABILITIES

Solution Architecture	Technical Delivery	Linux and Cloud	Network Architecture	Automation	Edge and IoT/OT
Incident Escalation	Commissioning and Handover				

PROFESSIONAL EXPERIENCE

The Supercharge roles and later Lonczy Limited retainer are consecutive phases of the same long-running Zenobe programme.

Independent Technology Consultant / Owner

Lonczy Limited, UK

Jan 2023 – Present

- Retained directly by Zenobe after the Supercharge engagement to support battery-storage and electric-fleet control, telemetry, networking, and AWS systems through continued operation and transition to internal capabilities.
- Supported the manufacture and delivery of approximately 150 additional vehicle telemetry devices; maintained documentation and delivered workshops, source-code handover, and commissioning support.
- Developed operational tools in Python, Node.js, Bash, and Docker, including MikroTik configuration management, API integrations, and a browser-accessible remote administration workspace.
- Delivered and recovered Home Assistant and TapHome installations and provided network architecture, monitoring, and advisory support to small organisations and IT service providers.

Network and System Specialist

Supercharge UK, London

Nov 2020 – Jan 2023

Client-facing phase of the Zenobe energy and fleet programme

- Directed hands-on technical delivery for battery-storage and electric-bus control and telemetry systems deployed across more than 20 UK sites.
- Planned and commissioned approximately 10 BESS sites and six bus-charging sites, integrating site networks, VPN connectivity, Raspberry Pi-based controllers, AWS services, and industrial equipment.
- Operated 800+ telemetry devices within 900+ concurrent VPN endpoints with greater than 99% availability; acted as the primary 24/7 escalation point for approximately three years.
- Automated deployment, monitoring, and configuration using Ansible, custom scripts, Debian packages, Docker, and Zabbix; trained specialists and contributed to recruitment.

PROFESSIONAL EXPERIENCE - continued

Network and System Specialist Supercharge Hungary, Budapest

Sep 2017 - Dec 2020

Early development of the same Zenobe programme

- Improved Supercharge's Wi-Fi, networking, cloud connectivity, and client-facing DevOps support before focusing increasingly on UK projects.
- Co-created the first Zenobe edge-system prototypes, helping shape the architecture and hardware specification and contributing the initial C++ implementation.
- Specified Raspberry Pi-based site controllers, wiring, and enclosures; designed and revised supporting PCBs and worked with a hardware partner on assembly, testing, and repeatable manufacture.
- Integrated systems using OCPP, CAN, Modbus, MQTT, AMQP, serial communications, HTTP/REST, WebSocket, and proprietary protocols.

Concurrent Independent Technology Projects Freelance Consultant, Budapest

Jul 2017 - Jan 2023

Delivered discovery, PoCs, MVPs, automation, monitoring, operational tooling, and infrastructure migrations alongside primary employment.

System Administrator Microsec Zrt., Budapest

Jan 2014 - Sep 2017

Operated high-availability infrastructure for commercial Certificate Authority services, improved development and operations workflows, and contributed to certificate-issuance and smart-card R&D.

Earlier Technology Projects

Various clients and organisations, Budapest

2002 - 2014

Contributed to multi-location fibre network designs supporting more than 1,000 endpoints, maintained Linux infrastructure during an institutional transition, and delivered networking, systems, web, and software projects.

TECHNICAL SKILLS

Technical Leadership and Delivery

Discovery, requirements shaping, solution architecture, forward-deployed delivery, PoC and MVP delivery, commissioning, incident escalation, root-cause analysis, documentation, handover, mentoring, and recruitment input.

Linux, Cloud, Containers, and Automation

Ubuntu, Debian, Raspberry Pi OS, AWS (EC2, VPC, VPC peering, SQS, EKS operations, Route 53, S3, RDS, CloudWatch, ALB, Lambda), DigitalOcean, Terraform, OpenTofu, Docker, Ansible, Mender, Debian packaging, Bash, Python, GitHub Actions, and Kubernetes workload operations.

Networking and Observability

MikroTik RouterOS, pfSense, VLANs, Wi-Fi, firewalls, DNS, DHCP, site-to-site networking, cellular connectivity, failover, multi-WAN, L2TP/IPsec, IPsec, OpenVPN, WireGuard, EoIP, SSH tunnels, and Zabbix.

Development, Edge Systems, and IoT/OT

Bash, Python, Node.js, JavaScript, C++, MySQL, PostgreSQL, RabbitMQ, AMQP, MQTT, HTTP/REST, WebSocket, Raspberry Pi, BeagleBone, Yocto, ESP32, OCPP, CAN, Modbus RTU/TCP, RS-232, RS-485, PCB design, field commissioning, Home Assistant, Zigbee, Matter, and TapHome.

Additional experience: VMware, Xen, EAGLE, KiCad, EasyEDA, Azure trials, Jenkins, Kafka pilot work, and AI-assisted software development, research, and documentation.

EDUCATION

Computer Programmer Qualification (OKJ) - Budapest Business School, 2001 - 2002 (completed)

University studies in Program Designer Mathematician and IT Engineering - ELTE, BME, and Obuda University, 2001 - 2006 (studies not completed)

High School Diploma in Computer Technology - Neumann Janos High School, 1997 - 2001

ADDITIONAL INFORMATION

Hungarian: native | English: fluent written and spoken | Right to work in the UK | EU citizen | Driving licence | Available for client-site work