

ZOLTÁN HAVASI – PROFESSIONAL CURRICULUM VITAE

Name: **ZOLTÁN HAVASI**

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PROFESSIONAL PROFILE

Zoltán Havasi is an electrical engineer, entrepreneur, and innovation leader, and the founder and CEO of MOHAnet. For more than twenty years, he has been involved in the development and commercial application of mobile communication, IoT, and remote monitoring technologies.

A defining area of his professional career has been the application of mobile machine-to-machine communication, followed by the development of complex remote monitoring systems based on this technology. His work spans from GSM/GPRS-based communicators through personal and health monitoring, vehicle and premises monitoring, to cloud-based remote monitoring and IoT systems.

In 2006, he co-founded MOHAnet, which became the principal environment for realizing his professional vision and innovation activities. As founder and CEO, his role includes identifying new technological and market opportunities, defining development directions, connecting different engineering and business disciplines, and supporting the market introduction of new developments.

From the outset, he has carried out his work together with a professional team. MOHAnet's developments are the collective achievements of hardware and software developers, operations specialists, sales professionals, and business experts. As a leader, Zoltán Havasi plays a defining role in building and directing this innovation community.

EDUCATION AND EARLY CAREER

University of Miskolc – Electrical Engineering, Specialization in Telecommunications Systems, 2005

During his university years, he began developing GSM-based remote monitoring communicators together with his fellow student, **Zsolt Mozsó**. Through their joint engineering work, they explored how mobile networks could be used for reliable data transmission between machines, sensors, and monitoring centers.

This development work laid the foundation for the establishment of **MOHAnet in 2006** and also defined one of the principal directions of Zoltán Havasi's subsequent professional career.

PROFESSIONAL CAREER – KEY MILESTONES

2006 – ALARM

Establishment of MOHAnet and introduction of the first 2G-based GSM remote monitoring device.

2007 – FIRESIGNAL, MEDCARE, PATROL

Expansion of the technology into fire alarm monitoring, personal monitoring, and patrol verification. MedCare emerged as an early IP-based personal emergency call solution in Hungary, and the technology was also applied in the country's Alarm-Based Home Assistance Service (Jelzőrendszeres Házi Segítségnyújtás – JHS).

2008 – MERCURY, MERCURIO COMMANDER

Development of a proprietary remote monitoring receiving station and dispatcher software. From this point onward, the development of standalone communication devices increasingly expanded toward the creation of complete remote monitoring systems.

2010 – NAVIGATOR, OBSERVER

Vehicle monitoring and mobile asset tracking became new areas of application.

2012 – VARIO, VARIO HEALTHCARE

Personal monitoring was expanded with telemedicine functions. Vario MedCare was also capable of transmitting data from medical measuring devices. Zoltán Havasi received the Kalmár Award for his work related to the development of VARIO HEALTHCARE.

2016 – iMACHINE

Development of a new hardware platform for security, fire protection, elevator, vehicle, and IoT monitoring applications.

2018 – MONIPHONE, MONICALL

A new generation of personal monitoring and patrol verification technologies.

2019 – MERCURY CLOUD, MONITORINGBOOK PRO and HOME

Transition of the remote monitoring infrastructure to the cloud. Development of a professional dispatcher platform and an end-user mobile application.

2020 – INSTANT, SOS PAGER

New remote control and portable personal monitoring solutions.

2021–2026 – Integrated Remote Monitoring and IoT

Development of 4G communication, digital response dispatch management, video remote monitoring, API-based integrations, RTLS indoor positioning, and a new-generation personal emergency call system.

2026 – SOS PAGER PRO

A new-generation, 4G-based personal monitoring and emergency call device.

By 2025, the technological environment developed over two decades supported the operations of **more than 90 remote monitoring service providers.**

CLICK4SKILL

Based on his own concept and methodology, Zoltán Havasi initiated the development of the Click4Skill digital language learning platform, which reached several thousand users. Despite the successful operation of the technology, the majority of users opted for the free version. Consequently, the service did not become economically sustainable in the long term and was eventually discontinued.

PROFESSIONAL AWARDS AND RECOGNITIONS

Zoltán Havasi's personal professional work, as well as the achievements of the development team under his leadership, have received numerous national and international recognitions.

- 2005, 2006 – Security Technology Solution of the Year
- 2008, 2011 – Hungarian Product Grand Prize
- 2008 – Hungarian Quality House Award
- 2008 – Expo Security Prix Bratislava
- 2010 – IT Business Leadership Award – Special Award
- 2011 – Hungarian IT Excellence Award
- 2011 – Detektor – Special Award for Domestic Innovation
- 2012 – Kalmár Award – Personal professional recognition awarded to Zoltán Havasi
- 2012, 2018, 2020 – IT Business Leadership Award – Special Award
- 2012 – Microsoft Central & Eastern Europe Best Azure Application – International recognition for the telemedicine development
- 2013 – International Business Development Recognition
- 2016 – IT Business Award – Product Development
- 2016 – T-Systems Innovative Partner Award

The Kalmár Award represents a personal professional recognition of Zoltán Havasi. The other awards relate to the innovation, product development, and business achievements of MOHAnet and the professional team behind it.

ZOLTÁN HAVASI'S INNOVATION ACTIVITIES

At the heart of Zoltán Havasi's more than twenty years of innovation activity lies the idea that remote monitoring should not merely be a function of an individual device or software application, but rather an integrated service supporting the entire process from the generation of an alert to human intervention.

He developed this concept beginning with the first GSM-based communicators, building on the practical experience gained from successive developments. Under his professional direction, a system has been created that now connects endpoint devices, data communication, cloud-based infrastructure, the dispatch center, field response, and the end user.

Zoltán has been the initiator, conceptual creator, and professional leader of all the innovations presented. The actual hardware and software developments are the results of the work of a team of specialists whose development directions he defined, whose work he coordinated, and whose resulting solutions he transformed into operational services.

1. Rethinking Remote Monitoring

Early in his career, Zoltán recognized that reliable transmission of an alert alone does not constitute a complete solution. Incoming information must be interpreted and documented, an appropriate response must be assigned to the event, a field unit must be dispatched when necessary, and the customer must be informed.

This gave rise to the concept of the integrated remote monitoring system that remains in operation today. Its innovation lies in approaching the entire service process rather than individual products: the communicator, server, dispatcher software, mobile application, and response support are designed to function as interconnected elements.

2. MONITORINGBOOK – Transforming the Concept into a Platform

Under Zoltán's professional direction, the experience gained from earlier remote monitoring systems led to the creation of a cloud-based platform that supports the service provider's entire operational process.

Monitoringbook PRO enables events, incidents, notifications, and response actions to be managed in one place. The associated RAPTOR system also integrates field units into the digital workflow: tasks can be assigned, response deployment can be tracked, and actions taken can be documented.

An important part of Zoltán's concept was that remote monitoring information should not remain exclusively with the service provider. This led to the development of Monitoringbook HOME, which also gives end users access to events and data relating to their own monitored devices.

The innovation is not the creation of three separate applications, but rather the fact that the dispatcher, the responding field unit, and the customer become participants in the same service process, each with information and access rights appropriate to their respective roles.

3. Personal Monitoring – Technology for Human Safety

Another defining area of Zoltán's innovation work is personal and elderly care monitoring. As early as the initial development of MedCare, he explored how mobile communication could be used to protect not only property but also people.

This direction subsequently evolved into personal emergency calling, technological support for the Alarm-Based Home Assistance Service (JHS), and later telemedicine.

The same fundamental principle advocated by him has remained behind successive generations of devices: an emergency call device must be supported by verified data communication, monitored infrastructure, a dispatch center, and a clearly defined response procedure.

The service remains operational, and a new generation is being developed under Zoltán's professional leadership. The aim of this development is to make the personal emergency call device part of an expandable system incorporating wireless peripherals and home sensors.

4. Integrated Response and New Technological Opportunities

In recent years, Zoltán's attention has increasingly focused on connecting technologies and business processes that were previously separate.

The results include API-based integrations that allow remote monitoring events to be connected to external IT systems; video remote monitoring developments that support operator decision-making with visual information; and digital response dispatch management.

The same problem-solving approach led to the development of high-precision RTLS indoor positioning. Recognizing the practical limitations of earlier Bluetooth Beacon solutions, Zoltán initiated the development of a more accurate, real-time technology.

The common objective of these developments is to reduce the need for manual information transfer and ensure that every participant receives the data required for an appropriate response in a timely manner.

5. Zoltán Havasi's Personal Contribution

Zoltán's role in the innovations presented encompasses three interconnected areas:

- **Inventor and initiator:** He identifies user needs and technological problems and develops the fundamental concepts of the solutions.
- **Technical and professional leader:** He defines technical objectives and development priorities and coordinates hardware, software, communication, and service-related considerations.
- **Leader and implementer:** He builds and leads the professional team, oversees developments throughout their lifecycle, and ensures that ideas are transformed into commercially applicable services.

His innovation achievements cannot be measured by whether he personally designed every circuit or wrote every line of code. His defining contribution lies in conceiving the systems, setting technological directions, organizing specialists around common objectives, and guiding developments from initial ideas to operational services.

The remote monitoring platform, professional and end-user applications, personal monitoring solutions, digital response dispatch management, and related integrations presented here are all services that remain operational at the time of submission of the application.

A distinctive characteristic of Zoltán Havasi's innovation work is that an initial insight becomes a functioning technology through the work of his team, that technology becomes a commercial service, and the experience gained from its use gives rise to further innovation.

FROM THE COMMUNICATOR TO THE REMOTE MONITORING ECOSYSTEM

MOHAnet's remote monitoring system in operation today is the result of twenty years of interconnected developments. Proprietary endpoint devices, communication infrastructure, cloud-based servers, dispatcher software, mobile applications, and external business integrations form a unified technological environment.

The system's innovation does not lie in any single component, but in the fact that it manages the entire process as one technological chain, from the monitored device through data transmission and the dispatch center to response actions and the end user.

The Legacy of MedCare: Personal Monitoring and JHS

Personal monitoring developments began in 2007 with MedCare. Hungary's first IP-based emergency call solution already functioned as more than a simple device: it was connected to Patrol verification devices, RFID identification, communication infrastructure, a Mercury server, and Mercurio dispatcher software.

The technology was also applied in the Alarm-Based Home Assistance Service (Jelzőrendszeres Házi Segítségnyújtás – JHS), where the person receiving care, the caregiver, and the dispatch center became part of a shared IT system.

This was followed by Vario MedCare and the telemedicine-based VARIO HEALTHCARE, and subsequently by Moniphone and SOS Pager. The common objective of these successive generations was to ensure that human safety was supported not merely by an emergency call button, but by continuously monitorable communication and IT infrastructure.

The next generation is currently under development. The new emergency call system aims to create an expandable safety environment using wireless peripherals, such as home emergency call devices, motion sensors, temperature sensors, smoke detectors, carbon monoxide detectors, and water leak detectors.

MONITORINGBOOK – One Platform for Two User Groups

The central software component of today's ecosystem is MONITORINGBOOK.

MONITORINGBOOK PRO was developed for professional dispatch centers. Beyond receiving alerts, it also supports incident management, automatic notifications, response dispatch management, and other operator workflows.

MONITORINGBOOK HOME is the customer-facing application of the same system. It enables users to monitor the status and events of their own alarm systems, fire alarm systems, emergency call devices, vehicles, measuring equipment, or other monitored devices from their mobile phones.

One of the essential elements of the innovation is precisely this: the service provider and the end user do not use independent IT systems, but rather two different views of the same data and service environment.

From Alert to Response

The current direction of development extends beyond traditional remote monitoring.

RAPTOR digital response dispatch management directly integrates the field unit into the process. The dispatcher can assign tasks, deployment can be tracked, and interventions can be documented.

API integrations enable remote monitoring events to automatically trigger processes in other business systems. Video integration further extends the platform toward unified operator management of different camera systems.

The video guarding and online concierge services currently in operation already combine AI-assisted video analytics, a 24/7 dispatch center, remote gate control, two-way audio communication, and on-site intervention when necessary.

This broadens the concept of remote monitoring: the system not only detects and transmits events, but also digitally supports the response to them.

Commercial Application

The developments are not prototypes.

By 2025, MOHAnet was already operating as a technology supplier to more than 90 remote monitoring service providers. The system's hardware, software, network, and data connectivity components are also available as subscription-based services, making professional infrastructure accessible to smaller remote monitoring businesses.

MOHAnet's current portfolio includes internet-based remote monitoring of alarm systems, fire alarm systems, elevators, vehicles, utility meters, field sensors, emergency call devices, and patrol verification devices.

These developments are not the result of one person's work.

MOHAnet is supported by a team consisting of hardware and software developers, operations specialists, sales professionals, and other experts. The origins of the company are also rooted in collaborative engineering work: Zoltán Havasi and Zsolt Mozgó were already developing GSM communicators together during their university years.

Zoltán Havasi's personal achievements as an innovator are primarily reflected in his ability to identify problems and technological opportunities, define development directions, connect different areas of expertise, build the team, and transform the resulting technologies into commercial services.

As a leader, his role is not to personally develop every piece of hardware and software. His responsibility is to ensure that the work of developers, engineers, and business professionals results in an interconnected technological system.

MOHAnet's twenty years of development therefore represent both the collective achievement of an engineering team and the result of Zoltán Havasi's work as a leader and innovator.

The most important constant element is not any particular device, but the methodology: starting from a real-world problem, creating a technical solution, integrating it into an operational system, testing it in a commercial environment, and then using the experience gained to develop the next generation.