Biometric access control system

Project in numbers

- **128 facial landmarks in one biometric sample**
- **-10% reduced authentication time**
- **16 weeks of developer work**

About the client

The basic activity of Microsystem is the design, installation and commissioning of electronic security systems as well as servicing of systems and devices.

COMPANY

MF SYSTEM MICRO

CHALLENGE

Microsystem turned to INNOKREA with a proposal to prepare and implement software supporting existing access control systems. The microsystem had prototype algorithms for analyzing facial biometrics, which required modification and implementation in the target solution. The goal of INNOKREA was to prepare an application that would meet the business requirements for a modern security system.

SOLUTION

- The functional specification and architecture for the new system were developed.
- Graphic designs of application screens were prepared.
- Programming work has been done.

As part of the work, a server application and two client applications were created in C++/C# technologies (one dedicated to registering facial biometric samples and the other serving as a reader/verifier). In general, the entire system allowed for:

- Registering facial biometric samples and granting permissions.
- Verifying a person's authorization to enter a given room.
- Opening the door after correct verification of the person and confirmation of authorizations.

BUSINESS EFFECT

Advantage #1 Increased safety

Advantage #2 Non-invasive and contactless

Advantage #3 Relatively low maintenance costs

Advantage #4 Speed and convenience

> IT specialists from INNOKREA are real specialists. They can efficiently program any business requirement, perfectly address customer concerns and quickly provide improved solutions. We recommend cooperation with INNOKREA!

Georgis Bogdanis

President of the Management Board, MICROSYSTEM Sp. z o. o.

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