

72

a
sense
for
innovation **IEE**

WOMS

Workplace Occupancy Monitoring System

Team members: Bc. Pavlo Usatiuk Bc. Jakub Alması
Mentor: Ing. Tomáš Girašek, PhD.

PROBLEM

Traditional attendance systems rely either on **manual RFID card scanning**, causing daily delays and inefficiency, or on camera- and biometric-based solutions that violate privacy and are **unacceptable in NDA-restricted environments**.



For a small company...
that's more than **8 working days per year**

00:00:03:04

One employee loses about 1.25 **working hours per year** just by scanning an access card...

SOLUTION

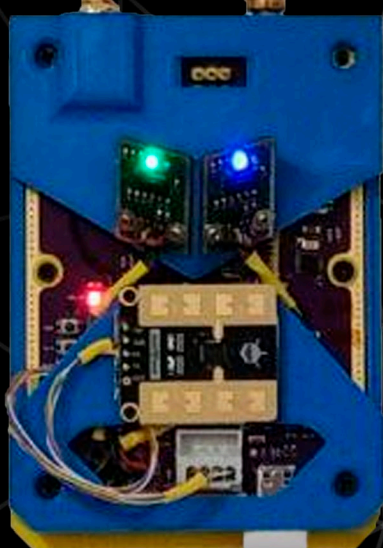
We designed an autonomous attendance monitoring system based on sensor fusion and privacy-by-design principles. The system automatically detects employee presence **without** cameras, biometrics, and manual interaction, while processing all data locally for **NDA-compliant operation**

NO EMPLOYEE TRAINING REQUIRED



SOLUTION FEATURES

- Time monitoring
- Access control
- Premises monitoring
- Workplace safety



without wasting time and leaking biometric
accuracy of 98% (+80H of testing)



©2026 Department of Electrical Engineering
and Mechatronics
FEI TUKE



LIVE IT
PROJECTS


investtechskills
Košice 2026