



INTERNSHIP OFFER

BE-2026-009-UGE

Gentbrugge, Belgium

ON-SITE

INTERNSHIP HOST

Name of Company
HAWC BV

Website
www.hawc-servers.com

Address of Company
Gentbrugge
Belgium

Number of Employees
8

Business or Product
Hardware and software for video surveillance

STUDENT REQUIRED

General Discipline
Computer
Software/Hardware
Engineering; Web
Development / Software
Engineering / Computer
Programming

Field of Study
Software Engineering

Completed Years of Study
3

Language Required
English Good (B1, B2) Or
French Excellent (C1, C2) Or
Polish Excellent (C1, C2)

Required Qualifications and Skills
Software Development.

Student Status Requirements
Student status during the entire stay is mandatory: please include a Certificate of Enrollment with the nomination.

Other Requirements/Information

INTERNSHIP OFFER

24 - 36
weeks

300 EUR
per Week

150 EUR
per Week

Latest Possible Start Date

Within Months
May-2026 - Oct-2026

Company Closed Wlthin
-

Deductions Expected
0

Payment Method
Bank Transfer

Arranged by
Trainee with the help of the LC.

Estimated Cost of Living including Lodging
300 EUR / Week

Working Environment: Research and development

Working Hours / Week: 38.0

The project focuses on the development of a scalable, modular Video Management System (VMS) designed to provide complete camera lifecycle management — from discovery and onboarding to real-time streaming, recording, and intelligent event detection. Built on open-source technologies, the platform emphasizes flexibility, customization, and long-term scalability to meet diverse deployment requirements.

The system architecture is based on independent yet interoperable microservices, enabling seamless updates, integration with third-party platforms, and efficient maintenance. Cameras are automatically detected and onboarded through a dedicated gateway service, ensuring rapid provisioning and secure configuration. The streaming pipeline supports reliable RTSP/RTP ingestion, transcoding for low-latency playback, and simultaneous distribution of feeds to viewers, recorders, and analytics components.

A responsive live monitoring interface provides operators with real-time visibility, featuring multi-camera grid layouts, event indicators, and timeline-based playback for quick access to motion-triggered clips. Recording is managed through both continuous and event-based modes, supported by retention policies and indexed storage that allow efficient use of capacity and easy retrieval of historical footage.

Intelligent motion detection enables region masking, sensitivity tuning, and scheduling to minimize false alarms. Detected events are processed through a centralized event bus that coordinates system-wide communication and retains records for analytics and traceability. Notifications and alerts are displayed as color-coded banners within the user interface and can also be pushed to mobile devices for immediate awareness.

A unified rule engine centralizes automation, configuration, and policy enforcement across all components. Security and compliance are built into the core architecture through role-based access control, encrypted communications (TLS), and periodic security audits to maintain data integrity.

To streamline deployment, all services are containerized, ensuring consistency across environments and enabling horizontal scalability. An installer application simplifies field setup, while a mobile app provides users with live monitoring, event management, and remote control capabilities.

Comprehensive testing and automated CI/CD pipelines ensure reliability, performance, and continuous improvement throughout the system lifecycle. The resulting VMS platform delivers a robust, secure, and efficient solution for modern video surveillance environments, adaptable to both enterprise and distributed edge deployments.

ADDITIONAL INFORMATION

Only candidates with EU citizenship (EEA or Swiss) (or dual EU nationality) are eligible, as the internship duration exceeds 90 days under Belgian visa regulations. Unfortunately, applications for shorter durations (up to 90 days) cannot be considered.

for student activities (up to 75 days) cannot be conducted.

Deadline for Nomination - 2026-04-27

Date - 17-Apr-2026

On Behalf of Receiving Country - IAESTE Belgium