







We are saving lives of 10 000 patients wearing pacemakers with CertiCon's software inside!

Did you fly with Airbus A350?
This model is factory
assembled using software
from CertiCon.

Patients on U.S. east coast care about their health using the mobile solution from CertiCon.

Every Porsche and BMW car you drive comes with a diagnostic chip from CertiCon.

Dispatchers on Austrian and Norwegian railways communicate via solution made by CertiCon.



We build smart innovations to improve efficiency of businesses and to increase the quality of people's lives.



CERTICON AT GLANCE

Since 1996, CertiCon has been improving the competitiveness of our clients around the world. CertiCon's B2B solutions comprise the full spectrum of services and solutions in SW/HW development and quality-assurance verification testing. Our projects and solutions cross medical and industrial domains by leveraging state-of-the-art methodologies and technologies.



Software Engineering

275+ Engineers



Applied Research

20 researchers



Product Development

4 product teams



NATIONAL CHAMPION &

TOP 10 in The Award for Innovation

EUROPEAN BUSINESS AWARD 2015/2016 TOP 100 in CZECH STABILITY AWARD 2016

(AAA Excellent)

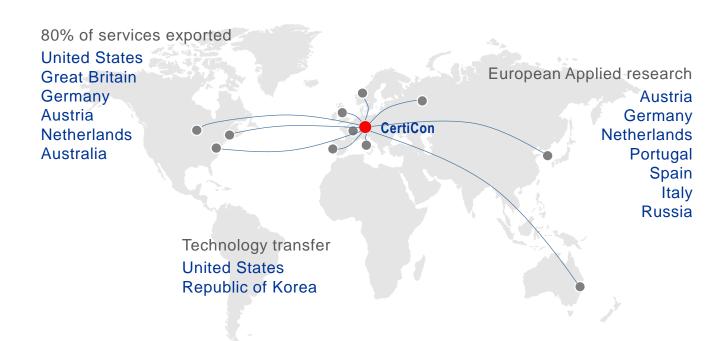
By Bisnode





CERTICON'S REACH

Located in the heart of Europe, CertiCon monitors the pulse of the world to provide the solutions for complex technology challenges.





UNIQUENESS OF CERTICON

We can clearly see the uniqueness of CertiCon. We are not a mass production factory or a typical software-house. We are eager to solve very complex problems even in narrow market niches. This makes us different than others, we provide tailored innovations with a perfect business fit.

Expertise in cybernetics 90% of university graduates Masters in Information Technology

From Artificial Intelligence to Bio-signal Processing

Connection with academia
Founder of research labs
Continuous student programs
Knowledge transfers to practice
And MUCH more

Unlimited Market possibilities

Multi-focused on various segments

From healthcare to automotive

We deliver business to business

Startup accelerator

Investments into startups
Health Helm, Inc. – mobile patient care
Passengera Ldt. – on-board infotainment
nova-met Ldt. – smart energy meters

WE DELIVER THE SEEMINGLY IMPOSSIBLE



CERTICON'S STRATEGIC TECHNOLOGY AREAS

1. Industry 4.0

2. Smart Cities - Vision

3. Telemedicine

Operational Scheduling
Production Planning
Process Optimization
Predictive Diagnostics
Multiagent Systems
Self-organizing Production

Online Video Analysis Smart Surveillance Behavioral Analysis Detection of Anomalies Video Synopsis

Electronic Prescriptions
Disease Management
Remote Patient Care
Treatment Governance
Electronic Ordering
Bio-signal Evaluation

We are the endogenous champion with ability for self-financing our in-house innovations.



BRINGING INNOVATIONS TO EVERYDAY LIFE

CertiCon's mission from it's foundation has been to deliver IT innovations for a better world. Where other companies fail to deliver, CertiCon pursues the opportunity. With our own applied research and product development centre, we leverage the knowledge, research methods and deliver what seems impossible.













Academia Partnership

Prague – Pilsen – Ostrava TU Vienna - CDI LAB University of Cambridge University of Manchester University in Constance

And many more...



Computer Vision Telemedicine Multi-agent Systems Product Development

Smart Surveillance **Production Optimization** E-health Applications **EEG Signal Processing** Remote Patient Engagement



Industry

Healthcare Automotive waste RECYCLING aviation Public safety telecommunications



PARTNERSHIPS SUPPORTED BY INNOVATIONS

To our partners and clients, we are more than just providers. We cover the full cycle of project development: from the initial idea, to project maintenance at the end.

Certicon key partners

HEALTHCARE: Medtronic (USA)

AUTOMOTIVE: Bosch (GER)

TELECOMMUNICATIONS:

Frequentis (AUT)

AVIATION: Airbus Industries (GER)

- 1. Business idea
- 2. Analysis
- 3. Architecture
- 4. Implementation
- 5. Verification
- 6. Maintenance
- 7. Customer Feedback



CERTICON IN 2017

In the end of the last year we have celebrated 20th anniversary. During past 20 years we've built important pillars that support our passion for technology.

350+ employees in 3 branches

Prague – Pilsen – Ostrava

Moved to new headquarters

Achieved "large company" status

Dedicated for innovations
4 product development teams
We run Lean startup method

WITH More to come in 2016...

Industry 4.0 pioneers
Leaders in consultancy
In-house software tools
Industry optimization
product

Successful airbus project
Project defended in Oct 2015
Operative production scheduler
A350 SERIES aircraft assembly

In Cooperation with eu partners

And MUCH more...

4 revolutionary products
CertiConVis for surveillance
EPIQA (Smart Scheduler) for Industry 4.0
CyberPSG for sleep data analysis
4mulcom for cellular networks

With MORE to come in 2016...





Software and Hardware Engineering

- ✓ SW & HW development
- ✓ Rapid prototyping
- ✓ Multiplatform development
- ✓ Web-based applications
- ✓ Mobile development
- Java JSE, JEE, PHP, JSP, JScript
- Net C#, C++, C, WPF, WCF
- Google Web-toolkit, Hibernate
- MS Win, Linux, Unix
- iOS, Android

Co-sourcing

- ✓ Certified SCRUM masters
- ✓ Certified PMI managers
- ✓ Agile project methods
- ✓ More than 15y experience
- ✓ Flexible resource planning
- ✓ Continuous budget control
- ✓ Shortened project cycles

Testing & QA

- ✓ Functional testing
- ✓ Stress testing
- ✓ User acceptance testing
- ✓ Unit testing
- ✓ Exploratory testing
- ✓ Load & performance testing
- ✓ Regression testing

CERTICON'S KEY REFERENCES



































ŠKODA













SECURITY: CERTICON CertiConVis

Computer vision and machine learning is our passion. In 2015 we introduced our software solution called CertiConVis – a platform for intelligent video analysis.

This is how much we reduced false alarms from non-human factors

Product characteristics:

- Intelligent computer vision for image and video analysis
- · Real-time and offline video stream analysis
- Rule based scene alert management
- · Object and pattern recognition within images
- Server application/plugin for third-party CCTV systems



Visit: www.certiconvis.com



TELECOMMUNICATION: 4mulcom - Revolutionary GSM Modem



Product characteristics:

- · Accelerates data transmission
- Stabilizes connection and bandwidth
- Improves parameters of the network from the application's perspective
- Enables HD video streams transmissions
- Uses 2 or 4 GSM channels from different operators

Visit: 4mulcomweb.certicon.cz





ONBOARD ENTERTAINMNET: Focus on passenger

Passengera is all in one on-board Infotainment system with useful features related to the trip for buses, trains, planes, boats, taxis.

Product characteristics:

- Runs on passenger smart phones, tablets and laptops as well as on fixed build-in screens
- Offline media access (movies, audio, news), POI, maps
- High speed internet access point (channel bonding)
- Runs i5 or i7 highly virtualized system
- Build-in auto recovery function

Visit: www.passengera.com





TELEMEDICINE: Trusted Patient Coach

Telemedicine is the area CertiCon massively invests. We provide professional consultancy services and have developed an commercial product for remote patient/senior care – Trusted Patient Coach, officially launched in 2015.

2x This is how much we reduced the readmission rate of ortho patients

Product characteristics:

- · Communication link between patient-doctor
- Remote care and care-plan advisory
- Tailored care-plans and measurement plans
- · Immediate notifications due to in-compliance
- · Portal Information system and mobile app

Visit: trustedpatientcoach.com





BIOSIGNAL PROCESSING: CERTICON Cyber PSG

Healthcare R&D has the longest tradition in CertiCon. We create life critical software from cardiology and disease management to bio-signal processing. In 2015, we created a sophisticated solution for fast sleep data processing, CyberPSG.

faster diagnostics of sleep recordings using Cyber PSG

Product characteristics:

- · A tool for biomedical Big Data signal processing
- Optimized for objective scoring of PSG recordings
- Tailored from the EEG analysis framework made by CertiCon
- · Cyber PSG is a desktop application for physicians

Visit: cyberpsg.certicon.cz



INDUSTRY: CERTICON'S EPIQA (Smart Scheduler)

Effective Planner with Intelligent Quality Accuracy

As a result of a European applied research project, CertiCon introduced the smart operational scheduler EPIQA for complex production lines management.

This is how much we reduced 15% cost of production ramp-up periods

Project characteristics:

- System for dynamic re-scheduling of production in real-time
- ORIGINALLY for Airbus Industries A350 SERIES production
- Massive performance with adaptive multi-agent technology
- Especially successful in production ramp-up scheduling
- Mitigates the risk of production stoppage





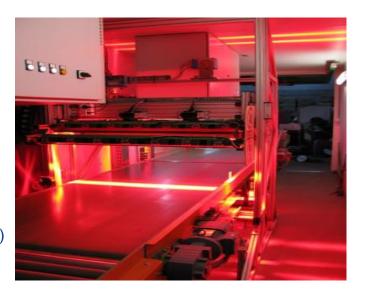
INNOVATIONS FOR WASTE RECYCLING

CertiCon reduced the manual error rate of electro waste sorting by developing an automated identification line for the further disassembly of electronics.

This is how much the current accuracy rate has been attained

Project characteristics:

- Fully automatized line for electro–waste identification
- Identification of manufacturer's logo and product model
- · Measurements and 3D modelling
- Line and HW components control (PLC, camera, sensors)
- Image processing and Computer vision solution





HEAT COSTS MANAGEMENT SYSTEM

Project characteristics:

- Heat Cost Allocator device
- RF Communication based on WMBus
- Configurable large set of parameters
- · Battery endurance 10 years
- Android mobile app for data collection
- Web based portal for data management



Thank you for your attention



Questions?

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