CODESPRING

OUR CODE **YOUR SUCCESS**

Software development and outsourcing

Company Catalogue

2012

Contents

Thoughts From Our CEO

Dear Partners and Friends,

After a challenging 2011, where considerable change has been streamed into our organization, we step in 2012 full speed ahead! In spite of the irregular economic commotions around the globe, our company and industry fellow entities, we have been focusing on delivering exquisite services and bringing forth innovative solutions. Investment in upgrading our delivery systems and industry acumen will be strategically backed up by consistent operations led to consolidate our business proposition.

It is an honor for me to congratulate our team and partners for their dedication and attitude. Codespring is about people and we are committed to attract partners that are synergetic with our team's core strengths. The engagement of our creativity and intellectual potential in the delivered software products and systems makes our team stand out.

2012 brings along hard to carry economic legacies that have burst out in the last quarter. On top of that, IT&C industry is erupting in new technologies and new business models. All environments become more information intensive and supported reaction speed is near real-time. Such frame of reference leads us and our customers to a single valid option: to couple with *change* all business and IT&C related strategies.

As a milestone for the Romanian business community and especially that of Transylvania region, Cluj-Napoca has emerged as a top location for software development, ITO and BPO services. Codespring is proud to have put its shoulder to the wheel of the IT&C sector of this city and is committed to reward the talent lying within the local software engineer's community.

Codespring will continue to engage all its resources to achieve business excellence while providing *high quality expertise and efficiency for full software development life cycle.* Next, we will proceed to leverage our expertise of developing state-of-the-art software in more than fifteen industries. Certainly, we will focus on quality improvement process and exemplar customer satisfaction.

Looking forward to building great strategic partnerships,

Thank you all.

Szélyes Levente
CEO

Brian Levey
Vice President, Datacolor

" We are very pleased with the performance of your people. They produce very good quality code, are very responsive, and committed. We appreciate this very much. "

Boros László
Department Manager, P92 It Solutions

" We are glad to have discovered this team. Agile and fast learners, the implement all technical requirements. They promised to deliver high quality and efficiency, and they Do It day by day! "

The Codespring Business

Founded in Cluj-Napoca, Romania, Codespring is one of the most dynamic local companies specialized in software development and consulting.

As a Romanian software company we develop custom solutions or add-ons covering the entire life cycle of a complex software development project and offer consultancy for the IT&C industry.

We call ourselves **Codespring**, thinking of code as a source for many extraordinary programs and applications which makes things tick! and amaze end-users by how information technology can make their jobs easier. We have been as flexible, or in today's words: as „agile" as required, in order to satisfy our customers' needs. Also, we have to acknowledge that we have developed into a successful company as long race runners, building strategic partnerships with our customers.

We provide exquisite services:

For:

1. SOFTWARE DEVELOPMENT
2. SOFTWARE CONSULTANCY
3. OUTSOURCING (near shore & off shore)
4. CUSTOMER ASSISTANCE
5. IT SECURITY CONSULTANCY
6. SaaS (Software as a Service)

1. SOFTWARE COMPANIES & Departments
2. BUSINESSES & Organizations
3. END-USERS

Our technically skilled team of software engineers can undertake projects at any stage of development, from requirement analysis & specifications, architecture design, or implementation, to testing, validation and support.

Codespring. Facts

Vision:	to build great strategic partnerships
Mission:	to provide high quality expertise and efficiency for full software development life cycle
Core Business:	software development and outsourcing
Ownership:	private
Headquarters:	Cluj – Napoca, Romania (member of the European Union)
Accessibility:	International airport, national highway
Working experience:	14 years
Working Facilities:	2 (located in Transylvania, Romania)
Turnover dynamics:	constant growth of +20% / year in the previous 5 years
Team:	+50 employees
Engagement models:	On-site, near shore and offshore
Languages:	Romanian and Hungarian, Advanced English and German
Infrastructure:	state of the art: multi-core servers are running to ensure virtual environment, redundant fiber optic enables a broad band Internet connection, dual firewall topology, Cisco networking and VPN connections with our clients, digital phone center with VOIP support
Programming languages & other:	C++, .NET/C#, Java, Databases, Mobile Development
Methodology:	V-Model, Agile, Extreme Programming
Labour Pool:	Highly qualified, hard working, deadline-reliable
Team Education:	Professional academic degree: BScIT, MScIT, Microsoft Certified Software Engineers: MCP (Microsoft Certified Professional) and MCTS (Microsoft Certified Technology Specialist), ISTQB Certified Testers, ISO 9001:2001 Certified Internal Auditors
Certificates:	Microsoft Gold Certified Partner ISO/IEC 27001 Information Security Management System in progress ISO 9001:2001 Quality Assurance Certification in progress

"Most countries grew faster than we forecasted in October (2011), with Romania leading the group with the largest positive surprise […].
Romania was also one of the strongest overall performers in the third quarter among the new EU members."

Source: EBRD / Regional Economic Prospects in EBRD Countries of Operations: January 2012

Romania. Facts

EU member:	Yes, Since 1st of January, 2007
Location:	Southeastern and Central Europe
Official Language:	Romanian
Population:	21,504,442.00 (2010)
Widely used currencies:	€, £, $
HDI (human development index):	50th of 169 [1]
Time zone:	EET (UTC +2)
Country ranking in Deloitte's CEE technology top 50:	4th place
Ease of starting business rank:	31st of 183 [2]
Protecting investors:	44th of 183 [3]
Income tax for corporate business:	16%
Income tax for programmers:	0%

GDP evolution (estimates for 2011):	EBRD	0.8%
	IMF	2%
	RO GOV [4]	1.8%
	PwC [5]	1.5%

GDP:	$254.7 billion – 43rd in the world (2009 est.) [6]
GDP per capita:	$11,500 – 97th in the world (2009 est.) [7]
IT&C industry contribution to national GDP:	3% (2010) [8]
Software and services industry contribution to national GDP:	0.9% (2010) [9]
IT&C contribution to total Romanian Exports:	9.8% (2010) [10]
IT&C weight of the Total FDI inflow:	7,9% (2010) [11]
Labour pool participation/economy:	2.6% (2010) [12]
Languages:	EN, DE, FR – main spoken foreign languages
Cultural compatibility:	Good

[1] United Nations Development Programme, 2010.
[2] IFC - World Bank 'Doing Business 2012' study.
[3] IFC - World Bank 'Doing Business 2012' study.
[4] Romanian Government, National Economic Projection Board.
[5] Pricewaterhouse Coopers.
[6] CIA The World Factbook.

[7] CIA The World Factbook.
[8] Institute for computers, Romania.
[9] Institute for computers, Romania.
[10] Institute for computers, Romania.
[11] Institute for computers, Romania.
[12] Institute for computers, Romania.

Software Development

Keen on achieving highest performances in full software development life cycle, Codespring has developed a **specific approach towards software development**. We hereby present you some insights of the process at each stage of development:

1.1. Project Definition
At Codespring you will find professionals ready to help you define the project to be launched. Execution qualities and evolution qualities will therefore be defined and fine-tuned by our team.

1.2. Selecting Methods & Technologies
Codespring software engineers' specific approach towards the selection of methods and technologies lies in being both versatile and firm.

1.3. Project Planning
Reaching specific milestones will give all parties satisfaction and the feeling of being on the right track. Project planning at Codespring is like a ticket to the desired destination.

1.4. Implementing
In order to provide best conditions for implementing software development, we permanently have in action a nest of highly skilled programmers and a system to always improve our skills.

1.5. Application Maintenance
As a safety measure, we aim to provide maintenance for software that has been developed by our team. Your benefits: quick response, issue monitoring system, justified options and time-effective solutions.

1.6. Quality Management System
One of Codespring's believes is that quality work will send your name forth in the community. Therefore, our team is keen on delivering work, products and services at the highest standards.

Cluj-Napoca: a 'location to watch' according to KPMG.
For the next outsourcing boom Cluj-Napoca is identified among cities which are rapidly emerging as leading pretenders to the BPO crown. "There is a sizable opportunity for these new and emerging locations to swallow up a large proportion of the new outsourcing work which the credit crisis is apparently creating." – formulated in its statement by KPMG Advisory.

Outsourcing

Modern society is built upon specialization; more tasks are outsourced today than ever before. The offshore outsourcing is an increasing trend. Software companies are under pressure, because they have to release products in the shortest time possible or find solutions that are up to date, assuring they are not at the expense of quality or undue means. Therefore, most companies choose outsourcing as an alternative means for their IT development. During over 14 years experience in software outsourcing in Romania, Cluj-Napoca, Codespring redefined its approach towards outsourcing.

Two main assets are to be delivered to our clients:
1. **Business Process** know-how and expertise, in more than 15 industries
2. Software development **know-how and expertise**, thanks to our team

Main questions while outsourcing with Codespring are:

Why outsource?	Why Cluj Napoca, Romania?	Why Codespring?
Save money	Close to all European locations	Professional, in-house elaborated working methods
Focus on core business	Time zone advantage	Sound expertise
Expand with less risk	Infrastructure advantage	Brand & corporate culture
Save Time	Cultural proximity	Demonstrated delivered quality
Access experience	Cost effective	Outstanding technical skills
Optimize productivity	Internationally acknowledged IT skills	Proven agility
	Foreign languages at very high level	Experience in building client relationships
	Government support for the industry	
	Great labour pool	
	Strong history in research in all fields of engineering and software	

let's do it together!

C++ | .Net / C# | Java

Technology Expertise

Over the last 14 years of work in full software development life cycle, Codespring has shown outstanding performance ability to deliver top notch solutions developed on various platforms:

Desktop Applications

Operating Systems	Windows, Linux, MacOS		
Programming Languages	C/C++	C#, Visual Basic.Net	Java
Technologies	DirectX, DCOM, ATL, MFC, Winsock, CPPUnit, GDL, SNMP, LDAP, STL	.NET 4.0, ADO.NET, Remoting, WPF, WWF, nUnit, Reporting	J2EE, Spring, Hibernate, JBPM

Mobile Applications

Platforms	iPhone, Android, Windows Mobile, JME		
Programming Languages	Objective C	Java	C#
Technologies	iPhone SDK, CoCoa	Android SDK, J2ME, BlackBerry SDK	Windows Mobile SDK, OpenNetCF, Symbol Mobility SDK, Platform Builder, .Net CF 3.5

Web Applications/Services

Application Servers	Apache Tomcat, Jboss, IIS 7.0	
Programming Languages	C#, Visual Basic	Java
Technologies	NET 4.0, ADO.NET, ASP.NET, WPF, WWF, WCF, WebService, SilverLight	J2EE, JSP, Velocity, Struts, Tiles, Vaadin, Hibernate, EclipseLink (JPA) Spring, Java Web Services (Axis). Ajax, ExtJS, JBPM, Liferay, Jasper Reports

Databases

Relational	Microsoft SQL 2010 Oracle Solid DB Sybase PostgresSQL	MySQL Access
Object Oriented	Versant VOD	
Compact	Microsoft SQL Compact SQLite	

Development Tools

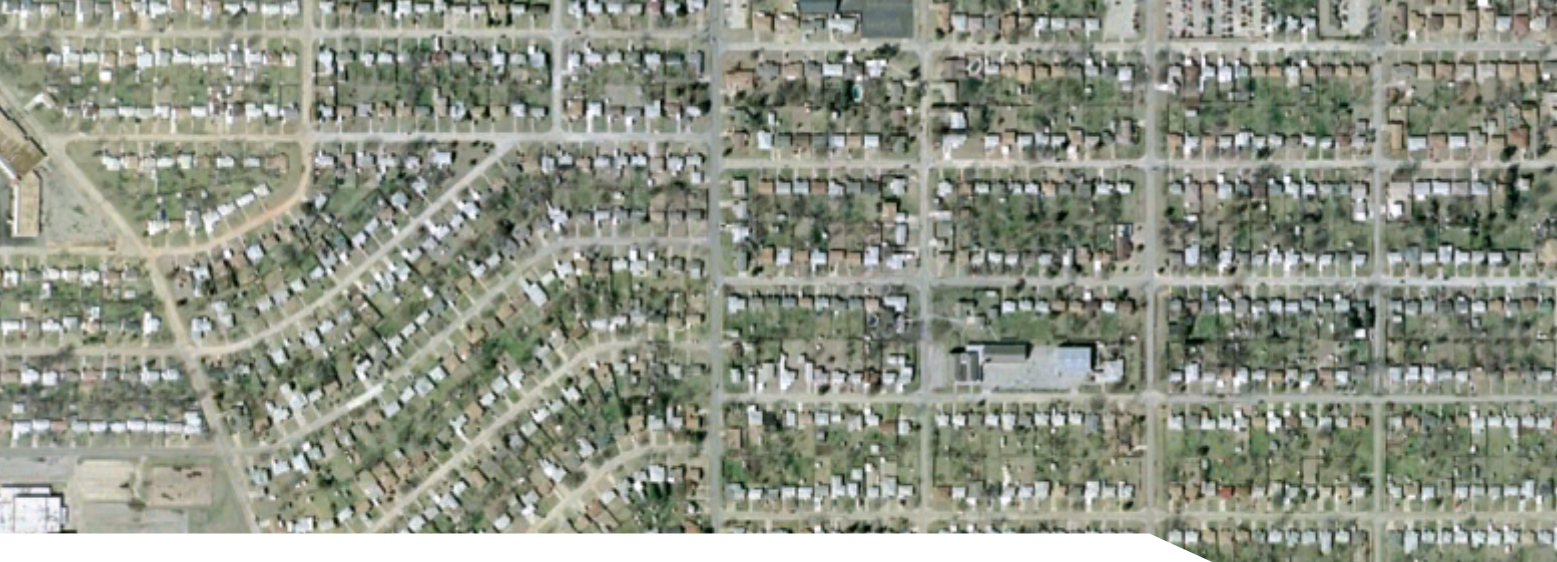| Project management	Architecture	Development
MS Team Foundation System, Jira, MS Project, eProject	Enterprise Arhitect, Rational Rose, Doxygen	MS Visual Studio 2010, Xcode, Code Warrior, GCC, IntelliJ IDEA, Eclipse
Version Control	**Testing**	**Bug Tracking**
SVN, MS Visual Source Safe, Perforce	HP Mercury Quality Center, TestComplete, Quicktest	Mantis, TestTrack , Jira, MS TFS
Deployment	**Profiling**	**Support**
Hudson, Maven, Installshield, Wix	ants Profiler, IBM Rational Purify +, Altova XML Spy, FxCop, Jmeter	GLPI, Mantis

CODESPRING

Industry Expertise

Codespring has built sound working experience in a set of 15 specific industries. We have been delivering both long-term customized software development projects and short term standard projects.
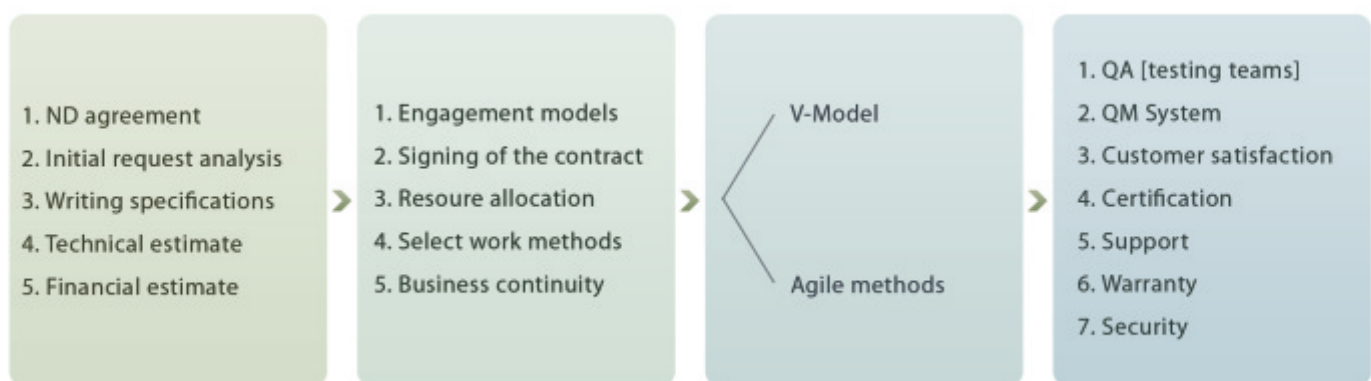
Our main asset consists in having a well prepared **Business Analysis Team**, capable of delivering state of the art **Process Break Down Charts** as starting point for any software development in any industry sector.

INDUSTRY	SYSTEM ARCHITECTURE	Special notes
Architecture	Desktop	pioneer in model based CAD projects
Building & Construction	Desktop	award winning project
Warehousing	Client/Server + Mobile	multilevel storage system
B2B logistics	Web application	world #1B2B communication system
Electronics & hight tech	Desktop	global leader in colour management solutions
Media & Entertainment	Client/Server + Mobile	professional video streaming
Printing & Publishing	Desktop	colour measurement
Marketing	Web application	multi channel outbound communication
Industrial equipment	Client/Server + Mobile	real time data acquisition
Health & Public care	Web portal	Hungary's #1 health portal
Education	Web application	research management system
Retail	Client/Server + Mobile	advanced barcode system
Food Industry	Client/Server + Mobile	production control, traceability
Travel	Mobile	new generation mobile technology
Services (SFA, ERP)	Client/Server + Mobile	customized software services

Study cases for each industry are available on our corporate website: www.codespring.ro

let us share!

Codespring Delivery Model

I. Project Analysis	II. Engagement	III. Development	IV. Quality Assurance
1. ND agreement	1. Engagement models	V-Model	1. QA [testing teams]
2. Initial request analysis	2. Signing of the contract		2. QM System
3. Writing specifications	3. Resoure allocation		3. Customer satisfaction
4. Technical estimate	4. Select work methods		4. Certification
5. Financial estimate	5. Business continuity	Agile methods	5. Support
			6. Warranty
			7. Security

I. Project Analysis

Whether you are a specialized company or you have just an overall idea about project definition, Codespring will always have the right solution for you. At this specific time, five steps are to be followed: signing the nondisclosure agreement, initial request analysis, writing specifications, technical estimation and financial estimation.

II. Engagement

Engagement is a major point that must be agreed upon and put down on paper. Firstly, we will present you various types of engagement and decide on the best solution. Afterwards, a contract form will be agreed upon and signed. Resource allocation may be set with the client or may be our own choice. Further on working methods will be established. Finally, a Business Continuity plan will be issued.

III. Development

We can easily undertake software development process according to the V-Model, yet we are ready to shift any time to the Agile methodology, or engage our pioneer software engineers into the XP (Extreme Programming) methodology. Quality is closely monitored in the above mentioned cases.

IV. Quality Assurance

Primarily oriented to follow and apply SQA (Software Quality Assurance) principles for full software development life cycle, our team turned to the implementation of TQM (Total Quality Management) systems paying attention to all departments and activities. The Codespring Quality Insurance system stands on 7 pillars: QA testing teams, QMS (quality management systems), customer satisfaction surveys, certification, support, warranty and security.

Quality Management System

Software has become so indispensable to modern life, from economic and production processes to life-sustaining processes, that one cannot afford disregarding SQA principles and methodologies.

The 7 pillars of our QMS are detailed below:

QA testing teams check and test if the software is well designed (quality of design) and if it behaves according to the design (quality of conformance). QA teams make sure that the software development process does not sacrifice quality in the name of completed objectives. Final goal is to detect errors early in the development process and to deliver a fine quality product.

QMS (quality management system). The aim of QMS is to ensure that its services always conform to customer demands and to keep partners satisfied. The strategic objectives of the company are as follows:

> 1. Codespring wants not only to take part in single projects, but also to be involved in the product development process of the actual business partners.
> 2. Codespring wants to become a supplier of complete applications and solutions for new business partners interested in high professional knowledge and technology

Customer satisfaction survey. Our specialized team conducts specific surveys in order to analyze our customers' level of satisfaction. We encourage our customers to give us both positive and negative feedback, since this is crucial for our further development.

Certification. Our team has Microsoft Certified Software Engineers: MCP (Microsoft Certified Professional) and MCTS (Microsoft Certified Technology Specialist), STQB Certified Testers, ISO 9001:2001 Certified Internal Auditors. Our engineers' language proficiency is certified by University of Cambridge and Goethe Institute.

Support. From the very early stage of the software development process until the deployment of the customized product, our TBA's (technical business analysts) deliver support in defining the project and understanding the requirements as the initial premise of quality software development. Support in its full meaning will be assured at the deployment phase.

Warranty. Codespring provides a warranty period from 1 month to 1 year according to the project's size right after the first use of the accomplished project.

Security. Information security is a top priority for our business. Today it is more important than ever to make sure all of our data systems are safe and secure. We put emphasis on physical, organizational and personal security in order to assure confidentiality, integrity and availability of the information and the information system. Therefore we use backup systems that register data even on tape devices, UPS, professional centralized antivirus system and have set up a redundant clustered server park.

let's be better!

Codespring Products

Productis
Built to yield!

Target audience:	Food industry (manufacturing & processing units)
Focus on:	Dairy industry
	Meat industry
Main Purpose:	Production control
	Traceability
Launched:	In 2008
Web:	www.codespring.ro/products/productis

Main features:

Productis covers the complete value chain of production

Purchase ➤ Reception of goods ➤ Raw materia inventory ➤ Processing ➤ Packaging ➤ Final goods inventory ➤ Selling ➤ Delivery

Productis offers the management team full control of

The production cycle of final goods and their market release.

Productis enhances the optimization of

Purchase management, inventory management, delivery management and sales management.

Productis ensures traceability

It enables the user to verify the history, location, or application of an item through a documented record.

Productis enhances overall quality

It reduces human errors; assures automated processes; provides a clear and secure document and data management system; allows work with remote teams.

Codespring Products

iSpeedCam
Safe at high speed!

Target audience:	iPhone owners
Focus on:	Avoid speed tickets
Main Purpose:	Traffic safety camera warning system
Launched:	2009
Web:	www.ispeedcam.info

Main features:

Alerts for most Traffic Cameras
Alerts for fixed speed cameras and mobile cameras, police spots and red light cameras.

World-wide camera database
iSpeedCam has an impressive speed trap database that covers the European Countries, USA, Mexico, Australia, New Zealand, India, and some other Asian / African Countries.

Editable camera database
With iSpeedCam you can tailor the camera database with one touch by adding new or disabling the unwanted cameras.

Graphical GPS tracking
While you are on the road iSpeedCam displays the outline of your current track and calculates a few statistics, e.g. your track distance, its total time, maximum speed, etc. These tracks are recorded and saved in the iSpeedcam's database, so you are able to review them later. The GPS tracking feature works without Internet connection as well.

Metric, Imperial unit system
iSpeedCam works both with metric and imperial unit system and you can customize not only the speed camera database, but also the warning distances and the camera types to warn you.

Google Map Integration
If internet connection is provided you can establish Google Map integration.

CODESPRING

speed up now!

Codespring Excellence Plan

CODESPRING CAREER MANAGEMENT diagram

I. Recruitment	II. Induction & Trial	III. Performance	IV. Promotion	V. Codespring Excellence
· Defining candidate profile · Matching the profile · Assessment center · Presenting candidate to clients · Hiring	· Induction · Mentoring · Initial training · Appraisal	· Meet requirements · On the job training · Internal appraisal · Client appraisal · Outperformance	· Promotion on rank · Promotion in total benefits · Access to development programs	· Continuous development · Account manager · Exceed performance

As a performance oriented company, we consider your career as important as you do. In order to achieve excellence in our work, the HR team has developed the Codespring Career Management Plan.

Codespringers are generally **young, dynamic, well skilled software developers**.
However we have realized that people who do really well at Codespring have specific strengths in specific areas. Evidence of these strengths will be followed at each stage of the recruitment process.

Very specific skills that can make you great at your job will be most surely tested by a highly skilled person in that area. You can find the hunted skills in the job descriptions for each opening.

The main features we are looking for at future Codespringers are:

- Communicative & receptive
- Fast learner
- Strong technical skills
- Proactive & with initiative
- Reliable
- Culturally sensitive
- Adaptable & integrable
- Stress resistant
- Good observer

CODESPRING

Our Success Stories

We are glad to share with you some of our success stories:

Seeburger, Germany

Business Integration Solutions

For the leading provider of global business integration solutions, we have been providing software development services using J2EE technologies in applications offering logistic solutions for the automotive industry.

Datacolor, USA

Color management solutions and color communication technology

Codespring supports Datacolor in achieving substantial and lasting bottom-line results by developing and testing its flagship software products. Our team elaborates functional requirements based on received marketing requirements. We provide full life-cycle testing by elaborating high level documentation (validation plan) which includes test plan, use case and reports.

Vico Software, USA

Virtual Construction

Vico Software's award winning 5D technologies provide unprecedented integration of design, construction and management processes in order to improve project predictability, to foresee constructability problems and to synchronize design, cost and schedule.

Reference available on: www.codespring.ro/references

inPhase, Germany

Video Solutions

For one of the top producers and distributors of professional systems in Broadcasting and IPTV, we have been delivering work on various video solutions – real time encoding of analogue channels into MPEG/H264 form and their streaming on the network (encoding, live streaming, on-demand streaming).

Graphisoft , Hungary

ArchiCAD

For the leading provider of Virtual Building™ solutions, our team has been working on the development process of the ArchiCAD engine (New Generation Teamwork), developer support tools, Q&A support tools and various add-ons (MEP Modeller for modelling ductworks and plumbing).

P92 It Solutions, Hungary

eMessagePlus

eMessagePlus is a customer lifecycle management platform deployed as a basis of a growing range of applications within Grass Roots. The platform is used for web content management, e-mail marketing, digital marketing, customer acquisition, retention and loyalty programs. Main users are channel partners or multinational marketing departments. We deliver this product in customized ways to clients like Samsung and BMW.

CODESPRING

ask them!

Heading for the Future

As a final note, the **Codespring** team of dynamic professionals is willing to share with you, our potential partner, some of its future plans and commitments.

Firstly, **Codespring** is devoted to its vision of building great strategic partnerships with specialized software development companies and teams, contributing to the evolution of IT&C industry.

Secondly, **Codespring** as a consolidated company with a performing team is dedicated to become one of the most challenging software development teams in Southeastern and Central Europe, using state of the art technologies.

Last, but not least, **Codespring** aims to engage its creativity and intellectual potential in developing software products and systems of the finest quality, always keeping an eye on the social responsibility and ethics of any endeavour.

Looking forward to meeting you and learning more about the potential of our future collaboration.

Best regards,

Codespring team.

Lorenz Zoltán
Product Manager, inPhase

> Over our 10 years of collaboration for developing professional video applications, mutual trust and respect were the fundaments of our partnership. Technically skilled, receptive and prompt, they continuously uplift their knowledge and expertise.

Attila Bárdos
Director R&D, Vico Software

> We have always been very satisfied with the services Codespring provided in the last 5 years since we started working together. Their developers are knowledgable pros you can rely on.

CODESPRING

OUR CODE YOUR SUCCESS

- SOFTWARE DEVELOPMENT
- SOFTWARE CONSULTANCY
- OUTSOURCING (near shore & offshore)
- CUSTOMER ASSISTANCE
- IT SECURITY CONSULTANCY
- SaaS (Software as a Service)

Codespring

RO - 400664, Cluj Napoca
Frunzişului Street, No. 29

Phone: +40 364 113 110
Fax: +40 364 113 111

E-mail: office@codespring.ro
Web: www.codespring.ro