

Anton Kolonin at Projects

2005-2012

- 2012 Cloud Computing for Healthcare
<http://www.zdorovieonline.ru/>
- 2010-2012 Real-time Data Recovery for Enterprise
<http://www.quest.com/>
- 2009-2010 Artificial Intelligence in Music
<http://www.rawtalentguitar.com/>
- 2008 Mobile Advertisement for Gigafone,
<http://www.gigafone.com/>
- 2007 Text/Data Mining for Medical Industry
- 2006 Conversational Interface to Knova Knowledge Management
- 2005 Integration of ServiceWare and Kanisa Knowledge Management Architectures, <http://www.knova.com/>

Anton Kolonin at Projects

1989-2005

- 2002-2003 ServiceWare Knowledge Discovery Engine
- 2001-2005 ServiceWare Cognitive Processor
- 1999-2001 WebMind at Intelligenesis Inc.
- 1997-1999 Real-time Motion Tracking for ProPro Ltd.,
<http://www.propro.ru>
- 1997-1999 Distributed Knowledge & Semantic Visualization, <http://www.webstructor.net>
- 1993-1996 Optical Character Recognition for CTC Ltd.
- 1993-2008 Space Work - Graphical Data Visualization for IT Solutions, <http://itso.ru>
- 1989-2008 Geotomo - Geophysical Tomography for IT Solutions, <http://itso.ru>

2012 Cloud Computing for Healthcare

Implemented as services of Zdorovie Online <http://www.zdorovieonline.ru/>

- Cloud based web service
- Personal data management for public users
- Healthcare automation for doctors
- Amazon
- Linux/Apache/MySQL/PHP
- CTO Role
- Project Management
- Product Management
- IT Management

Acting as CTO, responsible for collection of product requirements and management of development and delivery of cloud-based web service for public healthcare. Maintaining communications between top management, sales, marketing, industry experts and development, within company of 12 people leading 5 people. Taking care about IT infrastructure and security issues, Amazon Web Services and system administration.

2010-2012 Real-time Data Recovery

Part of product suite of <http://www.quest.com/>

- Data Protection and Real-time Recovery, Disaster Recovery
- Linux/CentOS Cluster storage
- Microsoft Visual Studio C/C++ and Driver Development Kit
- GCC/G++, JavaScript, PHP on Linux/CentOS

- Product Owner Role
- Project Management

Management of the project execution for development of enterprise-level Data Protection and Disaster Recovery software system. Management of the development process within international team involving 12 people in Russian office, 4 people in California offices and 3 people in China office. Maintaining communications between top management, sales, marketing and customer support within ecosystem of international corporation.

2009-2010 Artificial Intelligence in Music

Integrated in product of Raw Talent <http://www.rawtalentguitar.com/>

- Signal Processing
- Artificial Music Recognition
- ASIO Audio Interface
- Windows Media Framework
- C/C++
- C#
- Analysis and Research
- Invention, Design and Development of Algorithm and Software Engine
- Testing and fine-tuning of Algorithm and Software Engine

As a Key Researcher, responsible for invention, design, development, testing and fine-tuning of algorithm intended for artificial music recognition and evaluation, exposing API to the application development team and providing advisory for the rest of the team in respect to audio signal processing and pattern recognition.

2008 Gigafone Mobile Advertisement

Integrated in products and services of Gigafone <http://www.gigafone.com/>

- Symbian Mobile Applications
- Windows Mobile Applications
- Java
- J2EE
- WebLogic
- Apache
- Linux/Windows
- Project Management
- Analysis
- Product Management

As a Project Manager, responsible for the management of development and deliveries of mobile client-server platform, coordinating the Product Management, Design, Development, Deployment and Support within distributed team of five international subsidiaries in Russia, China, Taiwan and Singapore (several subordinate project/product managers and tens of people).

2007 Text/Data Mining for Medical Industry

- Java
- Allegro Common Lisp
- Allegro Cache OO Database
- Ruby on Rails
- Postgre SQL
- Linux/Windows
- Analysis
- Design
- Development
- Testing
- 100% Impact on the project

As a Lead Software Engineer, responsible for analysis, design, development and testing of the text/data mining framework intended for classification and extraction of attributes for medical inventory items

2006 Conversational interface to Knova Knowledge Management

Integrated in products and services of Knova <http://www.knova.com/>

- Pattern Recognition
- Natural Language Processing
- Java
- C/C++
- HTTP, Servlets
- Apache
- Tomcat
- Conversagent BuddyScript
- Analysis
- Design
- Development
- Testing
- 100% Impact on the project

As a Lead Software Engineer, responsible for the prototyping of conversational (chat bot) interfaces for the Knova knowledge management architecture

2005 Integration of ServiceWare and Kanisa Knowledge Management Architectures

Integrated in products and services of Knova <http://www.knova.com/>

- Information Retrieval
- Taxonomies
- Case Based Reasoning
- C/C++
- Java
- Analysis
- Design
- Development
- 10% Impact on the project

As a Lead Software Engineer, involved into analysis of key issues, conceptual and technical design of the integration of ServiceWare and Kanisa knowledge management architectures

2002-2003 ServiceWare Knowledge Discovery Engine

Integrated in products and services of Knova <http://www.knova.com/>

- Text Mining (Information Retrieval, Information Extraction, Classification, Categorization, Clustering)
- Taxonomies
- C/C++, Java
- Inxight Categorizer, Thing Finder
- Verity K2
- Vivisimo Clustering
- Team Leadership
- Analysis
- Design
- Development
- Testing
- 75% Impact on the project

As a Lead Software Engineer, responsible for the specification, design and leading development of the Knowledge Discovery Engine (integrated framework for interactive and automatic knowledge acquisition from the corporate content)

2001-2005 Cognitive Processor

Integrated in products and services of Knova <http://www.knova.com/>

- Case-Based Reasoning
- Neural Networks
- Natural Language Processing
- Cross-platform C/Java Development
- Information Retrieval
- Integrated Knowledge Retrieval Testing Technology
- Windows/Solaris/AIX
- Team Leadership
- Analysis
- Design
- Development
- Testing
- 90% Impact on the project

As a Lead Software Engineer, responsible for research, analysis, design and development of Cognitive Processor - kernel component of Knowledge Server used in integrated knowledge management architecture

1999-2001 WebMind

The company went out of the market in 2001

- Rule-Based Inference
- Neural Networks
- Genetic Programming
- Natural Language Processing
- Information Retrieval
- Distributed Computing
- Visualization of Knowledge
- Java
- Team Leadership
- Analysis
- Design
- Development
- Testing

As a Senior Artificial Intelligence Engineer, responsible for analysis, design and prototyping of different components of distributed artificial intelligence system intended for text classification, news filtering, market prediction, web content understanding and natural language comprehension - using genetic programming/algorithms, neural nets, personalization, numeric series prediction, logic programming and data visualization

1997-1999 Real-time Motion Tracking

Integrated in products and services of ProPro Ltd. www.propro.ru

- Invention, design and development of the real-time motion-capturing framework.
- Pattern Recognition
- High-performance C programming and code optimization
- Algorithm Invention
- Analysis
- Design
- Development
- Testing
- 100% Impact on the project

Designed and developed motion tracking (dynamic pattern recognition) algorithm and software intended to capture motion of selected objects with real-time streamed video data

1997-1999 Distributed Knowledge & Semantic Visualization

Information is available at <http://www.webstructor.net/>

- Semantic Networks
- Compiler/Interpreter Development
- 2D/3D Graphics
- Distributed Computing
- Java, Servlet and HTTP Development
- Algorithm Invention
- Analysis
- Design
- Development
- Testing
- 95% Impact on the project

Designed and developed peer-to-peer distributed system for knowledge input and visualization. Entire system consists of loosely connected servlets, applets, client, server and peer-to-peer applications maintaining distributed semantic net of knowledge

1993-1996 Optical Character Recognition

Project has been closed because of lack of funding

- Pattern Recognition
- Integral Geometry
- High-performance C programming and code optimization
- 2D Graphics
- Algorithm Invention
- Analysis
- Design
- Development
- Testing
- 100% Impact on the project

Invented, designed and developed the prototype software application relying on the original character recognition algorithm

1993-2008 Space Work - Graphical Data Visualization

Integrated in products and services of IT Solutions <http://itso.ru>

- 2D/3D Graphics
- Java
- C
- High-performance programming and code optimization
- Algorithm Invention
- Analysis
- Design
- Development
- Testing
- 85% Impact on the project

Proposed, designed and developed the software system for different types of scientific, geological and geophysical data visualization

1989-2008 Geophysical Tomography

Integrated in products and services of IT Solutions <http://itso.ru>

- Integral Geometry
- Inverse Problems
- Digital Signal Processing
- Computer Tomography
- High-performance C programming and code optimization
- 2D Graphics
- Algorithm Invention
- Analysis
- Design
- Development
- Testing
- 90% Impact on the project

Invented, designed and developed the integrated application software system intended for the various sorts of geophysical data processing, relying on the set of original algorithms