Yury Slynko

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Professional objective

Leading a perfect team.

Employment history

SAMSUNG R&D INSTITURE RUS - Moscow
Expert Engineer, June 2014 - present time
- Designed and implemented algorithms for 3D-reconstruction with smartphone
- Implemented GUI for mobile application for 3D-reconstruction
- Commercialized 3D-reconstruction application as "3D Capture" for Samsung Galaxy Tab S 2 tablet (https://youtu.be/J46PMztwQac)
- Patent on 3D-reconstruction is prepared

OOO "SPIRIT CORP" - Moscow, http://www.spirit.ru
Project manager Mobile Lab, April 2013 - June 2014
- Scheduled release management
- Initialized and performed a merging of two projects - mobile and PC engines
- Implemented a SIP-softphone based on media-engine and open-source projects
- Continued to perform duties of team-lead Video Lab

Team-lead Video lab, October 2010 – April 2013
- Lead of video-engine design:
  - Engine architecture documentation
  - Design and implementation of main components of video-engine
  - Modification and optimization of video codecs for various platforms
  - Lead of Android-specific features (video IO, JNI)
  - RFC standards implementation for RTP/STCP stack
  - Original 'TeleTouch' feature design and implementation
- Bugs fixing and engine debugging for Mobile platforms

EC "GEOMIR" - Moscow, http://www.geomir.ru
Freelance software engineer, November 2010 - December 2013
- Designed and implemented of 3D structure from 2D images algorithm
- Designed a set of computer vision algorithms
- Created a front-end for set of computer vision algorithms

OOO NPK "FAVORIT" - Moscow, http://www.favorit2003.ru
Senior software engineer of special software, April 2010 – October 2010
- Development of tracking algorithms for radar of surveillance system.

TORREY PINES LOGIC, INC. – San Diego, California, USA http://www.tplogic.com
Senior software engineer, October 2009 – March 2010
- Responsible for coordination of development of surveillance system software.
- Designed architecture of surveillance system software.

Freelance software engineer, October 2004 – September 2009 (from Moscow)
- Created key components and additional libraries of server part of surveillance system, responsible for communication with peripheral devices and information processing.
- Designed mathematical model and implemented a set of video processing algorithms such as stabilization, tracking, panoramic image creation etc.
- Created client part of system as web-application, responsible for GUI.

- Created a set of peripheral devices' drivers.

OAO "MAK "VIMPEL" - Moscow, http://www.vimpel.ru
Senior researcher, 2009
Engineer, 2003 - 2008
- Designed several logic-event based models of information systems as part of complex model of Anti-Missile Defense System for Department of Defense (including international projects).
- Developed a model of plume brightness by request of European client.
- Prepared and publish 27 articles in science journals and made 18 conference reports.

Education

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY – Moscow, Russia
Doctor of Philosophy in Computer Information Systems (Russian: Candidate of Science (Physics and Mathematics)), 2008
GPA: ~4.0
SSCA® - SIP training # 1397716592998-12427, 2014.

Skills Summary

- Mobile devices software
- Real-time systems
- Cross-platform software
- Software optimization
- Full software development cycle
- Computer vision (3D-reconstruction, SLAM, AR)
- Video codecs (H.263, H.264, HEVC, VP8)
- IP-telephony (SIP, RTP/RTCP etc.)
- Strong physics and mathematics background (linear algebra, analysis, computational mathematics)

Computer Skills

- C/C++ (incl. C++11/14), Java (SE, Android), C#, Ruby, Assembler (SSE) , JavaScript, Delphi
- Android, iOS, Windows, Linux and Mac OS X
- Development techniques : agile, scrum, extreme programming, refactoring, design patterns
- Wide range of IDE, profiling, source saving, code analyzing tools (Visual Studio, Eclipse, xCode, Perforce, SVN, Git, VTune, JIRA etc.)
- Programming experience from 1994

Publications and patents

27 publications in computer vision area (in journals «Digital signal processing», «Communications Technology and Electronics», «Instrument making» etc.)
18 conference reports (including reports in conferences DSPA Moscow, GraphiCon Moscow, ELMAR Croatia etc.)
4 certificates of software registration
2 patents (RU 2405207 C2, RU 82359 U1)

Languages

Native Russian (good technical writing).
English — informal and technical.
Basics of German.