

# Curriculum Vitae

## Aleksandr Tjuntonov, 1968-07-19

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Married, three children.

Citizenship: Swedish, Russian.

Driver Licence: type "B"

## OBJECTIVE

A challenging position of design engineer in image acquisition and image processing, hardware design, testing and development; data readout and data analysis and web-application where more than 8 years of data readout and test software development experience would be needed.

## TECHNICAL SUMMARY

### Operating systems:

Windows NT/2000/XP (9 years), MS DOS (11 years)

### Programming languages:

- Z80-Assembler (5 years), ATMEL-Assembler, PIC-Assembler (2 years);
- MS Visual C++ (3 years), MS Visual Basic (10 years);
- DXHTML/CSS/JavaScript (6 years), PHP5/MySQL/AJAX/jQuery (5 years);
- .NET, C# — 4 years.

### Programming technologies:

Win32 API (8 years), National Instruments API (5 years), ActiveX (5 years), Ajax (3 years)

### Image Processing & Machine Vision API

- MVTec "Halcon" Image Processing Library — 3 years;
- Allied Vision Technology "Vimba" Image Acquiring Library — 3 years;
- Stemmer Imaging "CVB" Image Acquiring & Processing Library — 3 years;
- Teledyne Dalsa "Sapera" Image Acquiring & Processing Library — 3 years;

## **PROFESSIONAL EMPLOYMENT:**

**2012 — ... "Parameter AB a company of STEMMER Imaging", Sweden**

**Title** – Application Engineer & Technical Support Engineer

**2003 — 2010 "SECTRA MAMEA AB", Sweden**

**Title** - System Design Engineer (since Jan-2003).

Take part in new Application Specific Integrated Circuit (ASIC) development, testing and applying. Project "MDM – MicroDose Mammography" was completed on time.

As a result of project implementation, the microdose digital mammography stand based on new ASIC was developed and released on market.

**Accomplishments:**

- complete ASIC debugging with co-operation with ASIC designers;
- complete ASIC precise measurements and testing software development (VB, Win32 API, National Instruments API);
- designed and implemented automatic trimming algorithm of more than thousand ASIC in detector unit (C++).

**1998 — 2001 "Giesecke & Devrient GmbH" – "G&D ZnakCard", Germany-Russia**

**Title** - Software Developer.

Software development for smart-card manufacturing equipment (ATMEL-, PICAssembler, Z80-Assembler).

**Accomplishments:**

- complete updating of manufacturing equipment firmware. As a result, various equipment was prepared for codification ("personalization") contemporary smart chip-cards.

**1991 — 1997 "Institute for High Energy Physics", Moscow, Russia**

**Title** – researcher.

Take part in ATLAS and CHORUS experiments for LHC (CERN, Geneve).

**Accomplishments:**

- radiation hardness GaAs microstrip detectors (with front-end electronics) were developed, tested and implemented in various particles accelerator experiments;
- proton beam monitoring system for proton radiation therapy for Medical Physics Department of ITEP (Institute of Theoretical and Experimental Physics, Moscow, Russia).

## **EDUCATION**

Saint Petersburg Electrotechnical University "LETI", "Physical Electronics", 1991.  
Masrer's degree.

## **PUBLICATIONS (co-author)**

(the most important)

- M. Lundqvist, M. Danielsson, B. Cederström, V. Chmill, A. Chuntonov, and M. Åslund,  
"Measurements on a full-field digital mammography system with a photon counting crystalline silicon detector", Proc. SPIE, Physics of Medical Imaging, vol. 5030, pp. 547-552, San Diego, 2003;
- M. Lundqvist, D. Bergström, B. Cederström, V. Chmill, A. Chuntonov, M. Danielsson and M. Åslund, "Physical evaluation of a prototype for the Sectra microdose mammography system", Proc. 6th International Workshop on Digital Mammography IWDM2002, Bremen, 2002;
- Chmill V.B. et al. Radiation hard microstrip detectors based on gallium arsenide. Nucl. Instr. and Meth., A379:pp.406–408, 1996.

## **LANGUAGES**

- English – advanced;
- Swedish – base;
- Russian – mother tongue.

## **REFERENCES**

Available upon request.