

# Aaron Zeltsburg

## Experienced Software C/C++ Engineer

### Personal information

**Address:** Sheinfein St. 28, Kfar Saba, Israel  
**In Israel since:** 1991  
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### Professional experience

#### 5/2017 – Present

##### **LTE PHY Software Engineer, ASOCS Telecommunications**

*ASOCS Telecommunications develops virtualized software solutions for RAN market 4G and 5G cellular networks.*

##### **Duties:**

- Leading SW infrastructure development for a number of radio communication protocols.
- Evaluation and integration of new proprietary and OpenSource technologies.

##### **Expertise:**

Developing C++ software for rigid Real Time tasks.  
Using Intel® IPP and Intel® MKL.  
Developing with Python.  
Working experience with protocols: ORI, CBRS, ORAN.

#### 7/2012 – 5/2017

##### **Senior C/C++ Software Engineer, ATX Networks Corp.**

*ATX Networks is a global provider of access & video network solutions serving commercial, enterprise, and residential markets.*

##### **Duties:**

- Leading SW development for an OTT streaming server platform.
- Developing SW for Video/Audio processing on GStreamer(v 0.10.x, 1.0.x) platform.
- Evaluation and integration of new proprietary and OpenSource technologies.
- Management of project versions and revisions with Apache Subversion (SVN).

Initiated and implemented design refactoring for a number of projects. Improved code stability.  
Initiated and implemented transfer of project build to GNU Autotools.

##### **Expertise:**

Offloading video processing from CPU to GPU with Intel Media Server Studio.  
Implementing OpenCL kernels for processing of custom computation tasks on GPU.  
Working experience with different raw video formats, video/audio codecs and streaming protocols: MPEG, Flash, HLS, MPEG2, H264, AAC, AC3, MPEG1L2. Setup and configuration of Linux (Ubuntu, CentOS) server platforms.

#### 9/2009 – 5/2012

##### **Senior RT/Embedded C/C++ Software Engineer, Teledata Networks Ltd.**

*Teledata Networks was a global provider of Access network solutions for Telecom Service Providers.*

##### **Duties:**

- Leading SW development for a GPON OLT Network card on Embedded Linux platform with BL3458 Quad GPON OLT Controller.
- Defining SW modules design.
- Integrating OMCI stack of OpenCon Systems.
- Developing CLI interfaces.

##### **Expertise:**

Working experience with protocols: IP, IGMP, DHCP, UDP, PPPoE, SNMP, GPON (G984.3, G984.4).  
Using SQLite library for working with DB.  
Working with network traffic generator tools.

**3/2008 – 9/2009**

**RT/Embedded C Software Engineer, BroadLight Ltd.**

*BroadLight designs and develops integrated networking and fiber access passive optical network processors.*

**Duties:**

- Developing API driver for GPON Residential Gateway.
- Integrating AudioCodes VoIP software.

**Expertise:**

Developing Linux kernel module.  
Writing scripts with Bash, Vbscript, Perl.  
Working experience with Spirent SmartBits, IXIA tools.

**4/2006 – 1/2008**

**RT/Embedded C Software Engineer, MobileMax Ltd.**

*MobileMax developed applications to the telecommunications industry.*

**Duties:**

- Software development for Microchip PIC12/IC16/PIC18 and Cypress CY7C67200 microcontrollers.

**Expertise:**

GSM AT commands set.  
RS232 protocol.  
UDP protocol.

**2003 – 4/2006**

**RT/Embedded Software Engineer, Cardo Systems Inc.**

*Cardo Systems is a market leader in development of wireless communication headsets for motorcyclists.*

**Duties:**

- Software development for projects: *scala rider, scala rider FM, scala rider TeamSet.*

**Expertise:**

Assembler programming on ATMEL (ATTiny2313, ATmega48) and MSP430 microcontrollers.

**2000 – 2002**

**HW Engineer student position, Motorola Communications Israel Ltd.**

**Duties:**

- Design drawing with CAD tools.
- PCB QA verification and repairing.

**Expertise:**

- CAD tools.
- HW testing equipment: scope, DVM, logic analyzer.

**Education**

**1997 – 2002**

**B. Sc. Computer Engineering,  
Technion – Israel Institute of Technology, Haifa**

**Major:** VLSI, Control Systems, Operating Systems.

**References are available upon request**