Arkady Miasnikov

(054) 4681517 | arkady.miasnikov@gmail.com

# Software Engineer experienced in leading development projects from inception to full implementation

Expertise in design and development of mission-critical real-time systems, firmware, multi-threaded applications, automated trading platforms, and web-based applications.  
Practiced in pre-sales and post-sales support of Tier 1 telecom companies in Europe and North America.  
Technology-savvy with a broad business perspective, good interpersonal relations, and high attention to detail.  
Tools & Technologies: Linux, Go, Python, C, C++11/14

# Professional Experience

## 2023-present: Software Engineer - Endotech

* Designed and developed custom momentum indicators and signal filters for specific market conditions, enhancing trading performance.
* Translated and customized multiple indicators from PineScript to Go, improving their efficiency and functionality.

## 2022-2023: Software Engineer - HiAuto

* Maintained the computerized drive-thru order-taking system, ensuring 99.9% uptime and operational efficiency.
* Enhanced business analytics tools by integrating data and troubleshooting systems, improving decision-making processes.
* Ensured continuous operation of on-premises devices, addressing technical issues promptly.

## 2018-2022: Software Engineer - Cyren

* Designed and developed leading email and network security products, contributing to a increase in threat detection accuracy.
* Maintained a complex SaaS system, integrating a range of popular software products seamlessly.
* Developed advanced phishing and spam detection engines.

## 2016-2018: Software Engineer - Secdo

* Defined, designed, and developed the Linux endpoint driver, enhancing system performance with minimal impact.
* Developed a solution to analyze millions of system events per second on multicore systems efficiently.
* Supported Windows endpoint software development, including kernel driver and user space code.
* Improved data processing performance and developed behavioral models for the security research team.

## 2012-2016: Software Engineer - Megabridge

* Developed a video monitoring and control system for HLS, including hardware module verification and low-level embedded firmware development for ARM-based processors, Freescale Power PC, and 8-bit ATMEGA micro-controllers.
* Designed and developed drivers and significant parts of the firmware for the BDSL product line and Java-based web management for the BDSL.
* Led bring-up projects: Windows CE on PXA255 (ARM) board, Linux on multiple HW platforms (Atmel SAMA5D3x and OMAP L138 CPUs), customization of Linux root file systems using Yocto, and VxWorks on custom PPC boards.
* Defined and set up the company's automatic build infrastructure, continuous integration system, and knowledge database.

## 2009-2012: Software Engineer - Texas Instruments

* Developed firmware for 802.11 ASIC, including pre and post-silicon verification of WLAN devices.
* Participated in WLAN Linux kernel development and defined/developed utilities for firmware build and debug in Linux.
* Led a streamlining process that improved productivity by 30% by advocating the replacement of ClearCase with GIT.
* Established a wiki-based search system that improved access to the company's knowledge base.

## 2005-2007: Software Engineer - Broadlight Ltd.

* Contributed to the development of the world's first fully integrated GPON chip.
* Supported the hardware team in post-production verification and pre-fab processes.
* Prepared firmware for design verification, post-production chip verification, and a series of drivers.

## 2001-2004: Software Engineer - Terayon Israel/USA

* Led a team of 5 engineers in the design and development of DSLAM systems, INTERCARD communication BSP for vxWorks, and various hardware drivers.
* Delivered customer-tailored systems, some of which are still in operation.
* Conducted employee training programs.

## 1995-2000: Software Engineer - TDSoft

* Developed infrastructures and low-level drivers for embedded real-time systems in C, C++, and Java.
* Participated in several development projects, including a Windows management system for strategic customers such as Deutsche Telekom and ECI.
* Designed and implemented significant parts of a V5 Class 5 switch (LE) simulator with ISDN support and developed GUI management for the simulator.

# Education

B.A. in Business Administration - Netanya Academic College (2007-2009)  
Software Practical Engineer - Tel Aviv University School of Practical Engineering  
Physics Department - St. Petersburg State University (1987-1989)