Arkady Miasnikov

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# 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

* Collaboratively 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.
* Developed indicators that are a central part of the company's trading algorithms.

## 2022-2023: Software Engineer - HiAuto

* Participated in the maintenance of the computerized drive-thru order-taking system as part of an international team to ensure operational efficiency and reliability.
* 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

* Participated in the collaborative design and development of 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.
* Initiated and prepared multiple POCs, including headless browsers, image recognition services, fast Hamming distance calculations, and locality-sensitive hashing.

## 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 verification and low-level embedded firmware development.
* Designed drivers and significant firmware components for the BDSL product line, including Java-based web management.
* Led bring-up projects for various HW platforms, customizing Linux root file systems using Yocto.
* Established the company's automatic build infrastructure and continuous integration system.

## 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)