

AHARON (ARNOLD) ROBBINS

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Summary: Seeking opportunities to design and develop interesting computer software and to provide technical leadership.

Qualifications: Graduate degree in Computer Science, including compiler and operating system development projects, as well as courses in communications and networking. Over 35 years experience with different Unix systems, Linux, MS-Windows, and C/C++ programming, in both academic and production environments. This includes extensive scripting experience in shell, `awk`, and the general Unix toolkit. Many years experience developing products in deadline-based environments. Extensive System and Network Management experience, knowledgeable about Unix and Linux system internals. Excellent written and spoken communication skills. Very organized and detail-oriented, while also able to see the big picture.

Open Source / Free Software:

I maintain GNU Awk (`gawk`) and its documentation. `gawk` comes with almost every known Linux distribution. Literally millions of systems run my software. (See <http://www.gnu.org/software/gawk/>.) I have been active in the Unix and USENET communities since the early 1980s.

Various other smaller programs that I have written or ported are available on GitHub: see <https://www.github.com/arnoldrobbins>.

Experience:

10/15 to 3/18: **McAfee (formerly Intel Security)**. I hold the position of *Senior Software Engineer*, where I work on the security agent part of company's database security product. All code (over 400,000 lines!) is in C++. The product is supported on Windows, Linux, Solaris, AIX and HP-UX. I added support for several databases (alone and with other team members), fixed bugs, and enhanced or rewrote significant features of the product, where I was responsible for design and implementation of the work. The work often involved interaction with customers to understand their needs and issues.

2/08 to 10/15: **Intel**. Position of *Software Engineer* at the Intel Design Center in Jerusalem. I worked in several teams, doing a variety of tasks, such as developing new CIM frameworks in C# and C++ for Intel AMT (Advanced Management Technology), participating in proof-of-concept tasks for an advanced Intel architecture, and working on DRM and video applications, including serving as the team-lead for the video encoder component. In the *Video and Parallel Group*, I worked on on device drivers, and led a cross-geo project on 2D Gesture Recognition.

From Q2 2014 I was part of the *Perceptual Computing* group, working on Enhanced Photography (computational photography applied to 3D stills and videos). Deliverables were for both Windows and Android. I held the position of *Software Microarchitect* for this group, where I was responsible for API design and coordination of deliverables across multiple groups within Intel.

Throughout my tenure at Intel, I often provided trainings to my teams and others in topics related to C and Linux software development.

3/05 to 1/08: **Ness A.T. Ltd / TSG**. Position of *Team Leader, Simulation*. Responsible for the simulation component of a large Command and Control system being developed for the Air Force of a democratic country. Duties included supervision of a junior developer, writing Requirements and Design documentation, and designing and writing software in C++, using both Visual C++ on Windows XP and GCC on Linux. Development was done primarily on Windows, using Qt 4 as the multi-platform windowing toolkit, but interim and final deliverables were on Linux. As the resident Linux expert I was also responsible for making sure that all the software remained portable to Linux, as well as for anything else related to Linux. This included writing scripts and doing other work to make installation of the delivered programs go smoothly. I acquired reasonable proficiency with Visual Studio and Microsoft Word. I also acquired experience learning and working with a very large C++ code base, consisting of close to four million of lines of code.

Experience (continued):

7/97 to Present: **O'Reilly Media, Inc.** and **Prentice Hall**. Since moving to Israel with my family in 1997, I have authored or co-authored a number of books for O'Reilly Media, Inc. (formerly O'Reilly and Associates), and Prentice-Hall. For details, place "Arnold Robbins" into the search box on Amazon.com. I also have done contract programming.

Personal: Married. Four children. U.S. and Israeli Citizen. Moved to Israel: 31 October 1997.

Education:

1983 GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, Georgia. M.S. Information and Computer Science. The M.S. work included a thesis on the design of a distributed program monitor.

1981 YESHIVA UNIVERSITY, New York, New York. B.A. Information Science.

Miscellaneous: I am a member of Usenix and a former member of the IEEE Computer Society, and the ACM. I was also a member of the balloting group for the 1993 IEEE POSIX 1003.2 standard (command language and utilities).

Languages: English: speak fluently, with excellent writing and speaking skills.
Hebrew: read, write and speak comfortably.

References: Available upon request.