

Hello.

My name is **Alexey Zaytsev**, I'm **26 years old***, and currently living in

Saint-Petersburg, Russia.

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I'm looking for a position as a **Software Developer** in areas such as **operating systems, device drivers, boot loaders, embedded systems** and similar, with a strong preference towards **Linux** and **Open Source** software in general. I enjoy taking on **complex problems** and hunting down **obscure bugs**.

Unfortunately, I **won't be able to travel abroad until mid-2012** due to bureaucratic difficulties with getting an international passport. After that, I'm all for seeing the world! I've been **telecommuting** for more then a year now, with good productivity, even for projects that requite access to the hardware.

I've been working with the **Linux kernel** since **2006**, mostly switching from **BSP maintenance** to **Device drivers (Networking, SPI, Crypto, USB)** to adding an **ARM SoC (Conexant Solos)** support to implementing custom **tunneling protocols** and whatnot. Besides Linux, I've spent some time hacking a number of boot loaders, including **gPXE** (ported to ARM), **U-boot** (porting to the aforementioned Conexant SoC), and **Barebox** (Adding support for running on the Versatile platform). And I'm also somewhat familiar with the **Solaris kernel** - porting the virtio-net driver from **NetBSD** to **illumos** right now. And I've also done some work with various **L4** variants.

So I'm pretty good with the **Operating system concepts, Parallel programming** for **SMP** systems with **performance** in mind, **TCP/IP networking** and the **low-level** stuff down to **bare-metal**.

I'm most proficient with the **C** programming language. I do some **Assembly (ARM, MIPS, x86)**, or **Lua, perl, python, ocaml**, and whatnot, but I don't consider myself an expert in any other language. Of course, I'm also able to write **shell** scripts and **makefiles**. I use **git** and the **Gnu toolchain** on daily basis.

I started working at the age of 15, working in a computer repair shop, as an admin and as programmer, but I'll list just a couple of my later employments that are relevant.

Since June 2011, I'm working as a **Senior Software Engineer** at **Nexenta Systems, Inc.**

Working on **drivers** and other **kernel** stuff for **illumos** and Nexenta products.

Between January 2010, and June 2011 I've been a **freelance programmer**, working for a number of employers.

To list a few projects, I've **Implemented an l2p-based tunneling protocol** in the Linux kernel, **moved a customer's build system** from shell scripts to **OpenWRT**, **rewritten a custom USB driver**, still working on **Implementing support for the Conexant Solos SoC** in the Linux kernel and **ported the virtio-net driver from NetBSD to Solaris (illumos)**, and a whole bunch of smaller projects.

* Or a few years older. Hi, future people.

Between January 2009 and 2010, I've been a **Software Engineer at Altell Ltd**, a company specializing in **information security solutions**. I've been involved in a number **virtualization-related R&D** projects, including evaluating of the **L4Ka::Pistachio** micro-kernel for use as a **hypervisor** for embedded systems. I've also been **maintaining** their **heavily-patched Linux kernel** on various **x86 and MIPS64 (OCTEON) hardware**, and implemented a driver for the **OCTEON Crypto-acceleration** engines.

Between January 2006 and December 2008, I worked as a **Software Engineer at PROTEI Ltd**, a company specializing in **telecommunication hardware**. I've been **maintaining the Linux kernel** on their platform's core board (**ixp420**-based) that's been used to drive a wide range of telecommunication equipment, written/fixed a few **drivers and userspace programs**, and participated in **hardware prototyping**.

If you care about my education, in **2002-2004** I've been studying “**Informatics and Computing technology**” at the “**Information technology and control systems**” faculty of the **Moscow State Technological University “STANKIN”**. In **2004**, I moved to **Saint-Petersburg**, and transferred to the “**Faculty of Computing Technologies and Informatics**” at the **Saint Petersburg Electrotechnical University “LETI”**, studying “**Computer Security**”.

I should have graduated as an **Engineer** (like, **Bsc+**) in 2009, but I took a pause to work on my diploma project, which still lies unfinished. I might get to finish it, or not.

In my free time, besides hacking on a random project, I enjoy playing **Go** and flying my **Paraglider**.