

Jan Janák

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Work Experience

- **Columbia University, New York City, USA** **Jan 2010–Jan 2011**
Visiting Researcher in the [Internet Realtime Laboratory](#)
Working on evaluating energy efficiency of VoIP systems, software for deploying services in core Internet routers ([NetServ](#)) and software for high-performance SIP signaling.
- **Tekelec, Prague, Czech Republic** **Jun 2005–Present**
Sr. Software Architect
Came to Tekelec through acquisition of iptelorg. Working on [SER](#), the free SIP server, and the company's extended version of the software known as the [SIP Signaling Router](#), Tekelec's SIP server solution for carriers.
- **iptelorg GmbH, Berlin, Germany** **Jan 2005–Jun 2005**
Co-founder and Chief Software Architect
Designed and implemented iptelorg's SER-based software for VoIP systems based on the Session Initiation Protocol (SIP). Created large-scale SIP setups scalable up to millions of users. iptelorg was acquired by Tekelec in 2005.
- **Fraunhofer FOKUS, Berlin, Germany** **Sep 2003–Dec 2004**
Researcher
Member of a group of four researchers that created the [SIP Express Router \(SER\)](#), high-performance SIP server implementation written in C. Created a fast protocol parser, database access layer, authentication code (HTTP digest, RADIUS, LDAP), documentation. Contributed to most parts of the code base.
- **Fraunhofer FOKUS, Berlin, Germany** **Dec 2001–Dec 2002**
Student Internship, part-time
Implemented software for remote runtime manipulation and control of NAT and firewall rules for VoIP applications on Linux hosts with iptables.
- **dynamicsoft Inc., NJ, USA** **Jun 2001–Sep 2001**
Summer Internship
Design and implementation of Java software for Internet telephony applications.
- **T-Systems, Prague, Czech Republic** **Jun 2000–Jun 2002**
Software Developer
Design and implementation of software for Point-of-Sale (POS) systems for gas stations. Designed and implemented software in C++ for the GUI, network communication, and database access. The software is being used to date on more than 300 gas stations.

Education

- **Czech Technical University, Prague, Czech Republic** **1996–2003**
Faculty of Electrical Engineering, Dept. of Computer Science
Ing. (Equivalent of master's degree in computer science).
Major: System Programming, Minor: Computer Networks
Master's thesis: [SIP Proxy Server Effectiveness](#)
- **Grammar School, Velke Mezirici, Czech Republic** **1992–1996**

Software Projects

List of open source software projects I am involved in or contributed to:

- **SIP Express Router (SER)**: Core developer and maintainer, later renamed to **SIP-Router**.
- **SIP Express Media Server (SEMS)**: Minor contributions.
- **Kphone**: Implemented DTMF support.
- **RADIUS client library**: Maintained the library for a while.
- **Sipsak**: Minor contributions.

Publications

- [Baset et al., 2010] Baset, S. A., Reich, J., Janak, J., Kasperek, P., Misra, V., Rubenstein, D., and Schulzrinne, H. (2010). **How Green is IP-Telephony?** In *To appear in SIGCOMM Workshop on Green Networking*.
- [Brandl et al., 2004] Brandl, M., Franzens, K., Daskopoulos, D., Dobbelsteijn, E., Garroppo, R. G., Janak, J., Kuthan, J., Niccolini, S., Ott, J., Prella, S., Ubik, S., and Verharen, E. (2004). **IP Telephony Cookbook**. Technical report, Terena.
- [Janak, 2003] Janak, J. (2003). **SIP Proxy Server Effectiveness**. Master's thesis, Czech Technical University in Prague.
- [Pelinescu-Onciul et al., 2003] Pelinescu-Onciul, A., Janak, J., and Kuthan, J. (2003). **SIP Express Router (SER)**. *IEEE Network Magazine*.

Talks

- **SIP Express Router**, FOSDEM 2006

Professional Skills

- **Programming languages**: C, C++, Java, x86 Assembler, Python, Lisp
- **Operating Systems**: UNIX/Linux, extensive experience in programming on POSIX systems.
- **Areas**: Systems and network programming, detailed knowledge of protocols for Internet realtime communication.

Personal

Citizenship: Czech Republic

Interests: Hacking, photography, Internet telephony, HAM radio, reading (especially science fiction), travel.

Languages: Czech (mother tongue), English (fluent), German (basic knowledge)

References

Available upon request.