

Lars Strand

CONTACT INFORMATION

Norwegian Computing Center
P.O. Box 114 Blindern
NO-0314 Oslo Norway

E-mail: lars.strand@nr.no
Web: <http://www.nr.no/~strand/>

EDUCATION

August 2007 – present

PhD Fellow (75% position)

Norwegian Computing Center / University of Oslo

Research fellow for a PhD degree at Norwegian Computing Center, within the research area of network security in VoIP, with special focus on the SIP protocol.

January 2003 – November 2004

M.Sc. in Computer Security

University of Oslo

I completed a M.Sc. at the Department of Informatics, University of Oslo, Norway. In my thesis I focused on network security and implemented a distributed firewall in close cooperation with the Norwegian Defence Research Establishment (FFI). Full title: "[Adaptive distributed firewall using intrusion detection](#)".

August 2000 – December 2003

B.Sc. in Programming and Computer Networks

University of Oslo

I completed a B.Sc. at the University of Oslo with courses in computer networks and programming.

August 1997 – May 2000

Minor degree in Philosophy

University of Oslo

I completed a minor degree in philosophy with two years philosophy and one year political science. In my thesis I compared Buddhist ethics with western consequentialism.

WORK EXPERIENCE

Remunerated

August 2007 – present

Senior System Consultant (25% part-time)

Redpill Linpro AB

I work as a senior technical free and open source (Linux) consultant and course instructor. Core member of both Network and Security Technical Excellence Area (TEA) groups.

April 2006 – May 2008

Board Member

Linpro AS

Board member elected by the employees of the company.

November 2004 – August 2007

Systems Consultant

Linpro AS

I worked as a technical free and open source (Linux) consultant and course instructor. I was responsible for keeping several sysadmin courses up to date and created several courses from scratch. I worked with network and infrastructure (Linux) for customers like "The Government Pension Fund of Norway", "Siemens Business Services" and "Ergo".

2003 – 2004

Research Assistant

Thales Norway AS

Part-time position summer 2003 and 2004. Development of a prototype for authentication of nodes in a ad-hoc network.

September 2000 – November 2004

System Administrator

University of Oslo

I worked on the Linux/Unix systems at the University of Oslo on a part-time basis. Programming in PHP, MySQL and scripting.

June 2000 – July 2001

Support Engineer

Telenor Internett

I worked as a support engineer solving customer problems related to Internet connection and popular Internet services.

Voluntary

2000 – present

FTP System Administrator

University of Oslo

I'm member of the sysadmin team responsible for maintaining Norway largest public ftp server <ftp.uninett.no>/<ftp.uio.no>.

June 2003 – August 2004

	<p>Author Linux Documentation Project</p> <p>As part of the Linux Documentation Project, I wrote and maintained the Mobile IPv6 HOWTO, Optimized Link State Routing Protocol (OLSR) IPv6 HOWTO and the 802.1X Port-Based Authentication HOWTO.</p>
	<p>April 2002 – Januar 2003</p> <p>Board Member Oslo Linux User Group (OLUG)</p> <p>Founding member, and board member of OLUG.</p>
	<p>1998 – 2004</p> <p>Student Activities University of Oslo</p> <p>I was involved in various student activities/societies on all levels of my higher education. Both professional and social.</p>
TEACHING EXPERIENCE	<p>Autumn 2003 and 2004</p> <p>Teaching Assistant University of Oslo</p> <p>I worked as a teaching assistant and examiner at a programming course in Python, Perl and shell scripting.</p> <p>March 2003</p> <p>Guest Lecturer University of Oslo</p> <p>I gave a two-hour guest lecture on free and open source software and its consequences for government administration at a Department of Political Science master course.</p> <p>July 2001</p> <p>Lecturer Telenor Internett</p> <p>I held a two day course in Linux and Linux networking for the technical staff at Telenor Internett.</p>
CERTIFICATIONS	<p>MySQL Core Certification 4.1, http://www.mysql.com</p> <p>MySQL Professional Certification 4.1, http://www.mysql.com</p> <p>Red Hat Certified Technician (RHCT), http://www.redhat.com</p> <p>Red Hat Certified Engineer (RHCE), http://www.redhat.com</p> <p>Linux Professional Institute level 1 (LPIC1), http://www.lpi.org</p>
SKILLS	<p>I've been in interested in computers as long as I can remember. I remember vividly when I bought my first computer in 1993. I stumbled across Linux in the late 90ies and have used it daily ever since. I will claim my Linux and network skills are thorough. My programming experience are primarily Perl, Python and Bash.</p> <p>Languages: Norwegian, English.</p>
PUBLICATIONS	
2010	<p>Anders Moen Hagalisletto and Lars Strand. "Designing Attacks on SIP Call Setup" Accepted for publication in ISPEC'09 special issue of <i>Int. J. Applied Cryptography</i>, 2010.</p>
2009	<p>Lothar Fritsch, Arne-Kristian Groven, Lars Strand, Wolfgang Leister and Anders Moen Hagalisletto. "A Holistic Approach to Open Source VoIP Security: Results from the EUX2010SEC Project" <i>International Journal on Advances in Security</i>, issn 1942-2636, vol. 2, no. 2&3, 2009, pages 129-141, http://www.iariajournals.org/security/</p> <p>Elin Sundby Boysen and Lars Strand. "Security analysis of the SIP Handover Extension" <i>NISK 2009 - 2nd Norwegian Information Security Conference</i>, pages 84-96, Nov 2009.</p> <p>Anders Moen Hagalisletto, Lars Strand, Wolfgang Leister and Arne-Kristian Groven. "Analysing Protocol Implementations" <i>The 5th Information Security Practice and Experience Conference (ISPEC 2009)</i>, pages 171-182, Apr 2009.</p> <p>Lothar Fritsch, Arne-Kristian Groven and Lars Strand. "A holistic approach to Open-Source VoIP security: Preliminary results from the EUX2010SEC project" <i>The Eighth International Conference on Networks (ICN2009)</i>, pages 275-280, Mar 2009.</p>
2008	<p>Anders Moen Hagalisletto and Lars Strand. "Formal modeling of authentication in SIP registration" <i>The Second International Conference on Emerging Security Information, Systems and Technologies (SECURWARE08)</i>, pages 16-21, Aug 2008.</p>

TALKS	<p>I have given several talks since 2001, including topics like computer and network security, free and open source software, software quality, network protocols and databases. For a full list, please consult: http://nr.no/~strand/publications.html</p>
PROFESSIONAL ACTIVITIES	<p>Technical Program Committee, The Fourth International Conference on Emerging Security Information, Systems and Technologies (SECURWARE10), 2010.</p> <p>Technical Program Committee, The Third International Conference on Emerging Security Information, Systems and Technologies (SECURWARE09), 2009.</p> <p>Session chair, The Eighth International Conference on Networks (ICN2009), 2009.</p> <p>Session chair, The Second International Conference on Emerging Security Information, Systems and Technologies (SECURWARE08), 2008.</p>
INTERESTS	<p>When I'm not in front of my computers, I like to exercise cross country cycling and running. I attend two-three cross country cycling competitions every year ("Raumerittet", "Grenserittet", "Birken"). During winter I spend much time exercising on the Concept2 indoor rowing machine, – I've entered over 1.5 million meters in the online logbook so far. I also have an "Advanced Open Water Diver" certificate from PADI.</p> <p>Whenever I have the time, I blog about my technical experiences here http://blog.larsstrand.org/. I also brew a considerate amount of wine each year.</p> <p>I'm also interested in philosophy of mind and -religion. But most of all, I enjoy spending time with my soon-to-be wife.</p>
REFERENCES	<p>Available on request.</p>