

Lars Strand

CONTACT INFORMATION

Address: Frydenlundbakken 12, 3474 ÅROS, Norway
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Born: 16. December 1978
WWW: Professional: <http://www.nr.no/~strand/>
Private: <http://www.larsstrand.org/>
Marital Status: Married



EDUCATION

August 2007 – November 2011

Ph.D. in Network Security

Norwegian Computing Center / University of Oslo

Research fellow for a Ph.D. degree at Norwegian Computing Center, within the research area of network security and VoIP, with special focus on the SIP protocol. Thesis title: *"Advancement towards secure authentication in the Session Initiation 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). Thesis 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 of Ethics

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

System Consultant

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 the network and infrastructure (Linux) for customers like "The Government Pension Fund of Norway", "Siemens Business Services" and "Ergo".

2003 – 2004

Research Assistant

Thales Communications 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 Nextra AS

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

Voluntary	<p>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.</p> <p>June 2003 – August 2004 Author Linux Documentation Project 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 Board Member Oslo Linux User Group (OLUG) Founding member, and board member of OLUG.</p> <p>1998 – 2004 Student Activities University of Oslo 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 Teaching Assistant University of Oslo I worked as a teaching assistant and examiner at a programming course in Python, Perl and shell scripting.</p> <p>March 2003 Guest Lecturer University of Oslo 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 Lecturer Telenor Internett I held a two day course in Linux and Linux networking for the technical staff at Telenor Internett.</p>
CERTIFICATIONS	<p>MySQL Core Certification, http://www.mysql.com MySQL Professional Certification, http://www.mysql.com Red Hat Certified Technician (RHCT), http://www.redhat.com Red Hat Certified Engineer (RHCE), http://www.redhat.com 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	<p>2011</p> <p>Lars Strand. "Advancement towards secure authentication in the Session Initiation Protocol" <i>PhD thesis</i>, University of Oslo, Nov 2011.</p> <p>Lars Strand and Wolfgang Leister. "Advancement towards secure authentication in the Session Initiation Protocol" submitted to <i>International Journal on Advances in Security</i>, 2011</p> <p>Lars Strand, Wolfgang Leister and Alan Duric. "Migration towards a more secure authentication in the Session Initiation Protocol" <i>The 5th International Conference on Emerging Security Information, Systems and Technologies</i>, (SECURWARE2011), Aug 2011, Nice, France.</p> <p>Lars Strand, Josef Noll and Wolfgang Leister. "Generic Security Services API authentication support for the Session Initiation Protocol" <i>The 7th Advanced International Conference on Telecommunications (AICT2011)</i>, Mar 2011, St. Maarten, The Netherlands Antilles.</p> <p>Lars Strand and Wolfgang Leister. "Improving SIP authentication" <i>The 10th International Conference on Networks (ICN2011)</i>, Jan 2011, St. Maarten, The Netherlands Antilles.</p> <p>2010</p> <p>Lars Strand. "VoIP lab as a research tool in the EUX2010SEC project" <i>Norwegian Computing Center Technical Report DART/08/10</i>, April 2010.</p>

- Lars Strand and Wolfgang Leister. "A Survey of SIP Peering" *NATO ASI – Architects of secure Networks (ASIGE10)*, May 2010, Genova, Italy.
- Anders Moen Hagalisletto and Lars Strand. "Designing Attacks on SIP Call Setup" *International Journal of Applied Cryptography*, ISSN 1753-0563, Volume 2, Number 1, July 2010.
- 2009
- 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" *International Journal on Advances in Security*, ISSN 1942-2636, vol. 2, no. 2&3, 2009.
- Elin Sundby Boysen and Lars Strand. "Security analysis of the SIP Handover Extension" *The 2nd Norwegian Information Security Conference (NISK2009)*, Nov 2009, Trondheim, Norway.
- Anders Moen Hagalisletto, Lars Strand, Wolfgang Leister and Arne-Kristian Groven. "Analysing Protocol Implementations" *The 5th Information Security Practice and Experience Conference (ISPEC2009)*, Apr 2009, Xi'an, China.
- Lothar Fritsch, Arne-Kristian Groven and Lars Strand. "A holistic approach to Open-Source VoIP security: Preliminary results from the EUX2010SEC project" *The 8th International Conference on Networks (ICN2009)*, Mar 2009, Cancun, Mexico.
- 2008
- Anders Moen Hagalisletto and Lars Strand. "Formal modeling of authentication in SIP registration" *The 2nd International Conference on Emerging Security Information, Systems and Technologies (SECURWARE2008)*, Aug 2008, Cap Esterel, France.
- TALKS
- I have given several talks since 2001, with 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>
- PROFESSIONAL ACTIVITIES
- Technical Program Committee, *The International Conference on Networks (ICN)*, 2010, 2011.
- Technical Program Committee, *The International Conference on Emerging Security Information, Systems and Technologies (SECURWARE)*, 2009, 2010, 2011.
- Session chair, *The 8th International Conference on Networks (ICN)*, 2009, 2011.
- Session chair, *The 2th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE)*, 2008.
- INTERESTS
- When I'm not in front of my computers, I like to exercise cross country cycling and running. Most of my activities can be found at my profile on "Runkeeper": <http://runkeeper.com/user/larsstrand/> I try to 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.
- 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.
- I'm also interested in philosophy of mind and -religion. But most of all, I enjoy spending time with my wife.
- REFERENCES
- Available on request.