

Bruce O'Neel

Route de Marchissy 8A, Longirod, 1261 Switzerland
Phone: +41 78 947 91 09 E-Mail: bruce.oneel@pckswarms.ch

Objective

System Administration, Computer Security, and Deep Learning Discovery of Uncommon Network Events.

Experience

Senior Systems Administrator, Nestle Research, Lausanne Switzerland **Nov 2013 – Current**

- Responsible and Accountable for the Lausanne implementation of the firewalls for scientific and lab systems. This required extensive debugging of network traces and firewall logs of diverse systems and quick reaction for unknown and hidden systems. I remain the go-to person for any and all lab networking problems.
- Turned around a non-functional and unusable system into a high performing useful system for scientists. For Q4 2019 we had 1 problem, well under our KPI of 15.
- Responsible for a “Call To Arms” process to audit and implement corporate security for all installed applications and webservers.
- Responsible for security monitoring, system tuning, and utilization.
- Responsible for a group of 300 systems and almost 4 PB of disk.

Senior Computer Scientist, Philip Morris International R&D, Neuchatel Switzerland **Sep 2009-Oct 2013**

- Responsible for the technical project management of one of the few external PMI R&D websites, <http://sbvimprover.com>. This website was part of a successful USD 50,000 challenge to find diagnostic signatures for chronic human diseases.
- Responsible for a Linux compute cluster and a Blue Gene/P installation.

Senior Systems Engineer, SP-Systems/ISDC/University of Geneva, Versoix Switzerland **Jan 2002 – Sep 2009**

- Responsible for the distributed scientific analysis package for the Integral telescope mission.
- Responsible for system administration and out of hours support for real time data.

Atraxis/SAirGroup **Oct 2000 – Dec 2001**

- Worked in Lisp to build a backend extension to the SwissAir reservation system called SuperAgent. SuperAgent automatically processed exceptions in airline reservations for different airlines to minimize manual work.

Systems Engineer, SP-Systems/ISDC/University of Geneva, Versoix Switzerland **Oct 1997 – Sep 2000**

- Designed an interactive system to process data at a scientist’s home institute for the Integral mission.
- Designed a set of base libraries so that the distributed development team spread over Europe could develop software for Integral

Senior Systems Engineer, STX/NASA Goddard, Greenbelt, MD, USA **Jan 1991 – Sep 1997**

- Designed and programmed one of the first NASA websites at HEASARC.
- Programmed scientific processing software for different X-Ray missions.

Systems Engineer, EDS, Arlington VA, USA

June 1989 - Dec 1990

- US Department of Defense - System administration of an office automation system.
- National Telephone Systems - Pay phone subscription record processing.

MIS Manager, Hekimian Labs, Rockville MD, USA

July 1986 - May 1989

- Programmer and then MIS manager for a telephone test equipment manufacture. Spirent has acquired Hekimian Labs.

Education

Johns Hopkins University, Baltimore MD, USA

1992 - 1995

Master of Science in Computer Science. Concentration in AI and Computer Graphics

University of Maryland, College Park, MD, USA

1982 - 1986

Bachelors of Science in Electrical Engineering

Skills

Published a paper at EuroBSDCon 2006 on using Ants to secure networks. The goal was to find rare but important events in pcap files captured with tcpdump and then alert the user. The method was to use swarm intelligence to group the packets.