

# Anthony Lineberry

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## Contact

(310) 993-0085

anthony.lineberry@gmail.com

## Summary

I generally have done work researching and developing in the field of computer security. I have a firm knowledge and understanding of Operating System design, processor, and compiler architecture. When looking for work I prefer stable environments in which the company and I can strive toward continuous improvement for mutual advantage. I have 7+ years of programming experience. I have written various papers and given presentations on computer security.

## Experience

**Flexilis Inc.**, Los Angeles, CA September, 2008 – Present

*Sr. Software Engineer*

- Security research on mobile handsets
- Developed IPS/AntiVirus for mobile devices
- Reverse Engineering Symbian kernel and Windows Mobile internals

**NeuralIQ Inc.**, Santa Monica, CA February, 2007 – September, 2008

*Sr. Software Engineer*

- Lead developer of code for NT Kernel memory introspection in hypervisor
- Lead small team of developers on Sentinel codebase
- Reverse Engineered many NT Kernel internals and structures.

**McAfee**, Santa Clara, CA October, 2006 – January, 2007

*Security Researcher*

- Helped in development of McAfee Host IPS
- Reverse engineering Windows system files to discover vulnerabilities using IDA Pro, WinDBG, etc.
- Developed vulnerability signatures for Host IPS product

**Various Consulting Jobs** August, 2005 – September, 2006

- Worked on various projects consulting privately
- Developed successful software for automating services and sold privately
- Developed solely from conception to full completion with multiple releases (C#)
- Open source work on BugReport, an automated static binary analyzer in C# and Test Driven Development

**Determina Inc.**, Redwood City, CA May, 2005 – August, 2005

*Vulnerability Researcher*

- Reverse engineering of Windows system dll's using IDA Pro, WinDBG, and VMWare
- Discovered various security vulnerabilities
- Helped develop Shields for the LiveShield Product based on reverse engineering
- Worked remotely managing time effectively and efficiently

**LogicLibrary Inc.**, Sunnyvale, CA June, 2004 – April, 2005

*Software Engineer*

- Assisted in development of x86, .Net MSIL, and Java disassembler
- Agile software development/XP: pair programming and test driven
- Programming, debugging, and testing of C# on Linux and Windows
- Reverse Engineering of x86, .Net MSIL, and Java binaries using IDA Pro, obj-dump, and our own proprietary disassembler

**Circle Tree Media**, Boise, ID

November, 2003 – June, 2004

*Software Engineer*

- Lead developer of ANSA Asset Management Linux client
- Research into Linux kernel proc based drivers
- Setup and configuration of Linux servers with Apache/PHP/MySQL

**Computer Skills**

Languages: C/C++, C#, Objective-C/Cocoa Framework, BSD Sockets, x86/MIPS/ARM Assembly, Java ByteCode, .Net MSIL, bash shell, Java, PHP, Perl, WinForms, Win32 API

Tools: gcc, gdb, mono, Visual Studio, NUnit, cvs, svn, IDA Pro, Logiscan, nmap, bochs, windbg, CoreImpact, FxCop, McAfee HIPS

**Open Source Projects**

- One of the lead developers for pdaXrom embedded Linux for Zaurus c7x0 series hardware (<http://www.pdaxrom.org>)
- Co-Developer of MobileChat. Multiprotocol chat client for the Apple iPhone. Became one of the most downloaded 3rd party software for the iPhone at the time. (<http://blog.twenty08.com/mobilechat>)
- Author of Silc Plugin for Trillian chat client
- Author of ominOS, a 32bit hobby kernel for x86 hardware (<http://ominos.sourceforge.net>)
- Bugreport - developer for .Net based static binary analysis tool for detecting vulnerabilities (<http://bugreport.sourceforge.net>)
- Reverse Engineered the Actiontec GT-701 Home DSL Router Firmware to run 3rd party software (<http://www.dtors.org/index/actiontec>)

**Activities and Interests**

Embedded Systems, Kernel Development, Reverse Engineering, Robotics, Bike Riding, Snowboarding