Vincent Martin - Software Engineer

vince@finalatomicbuster.net | github.com/vincepmartin

Technologies

- **Languages**: Java, Kotlin, Javascript, Python, C, AVR Assembly, Verilog
- **Databases**: SQL, Redis, CouchDB
- **Mobile**: ReactJS, Android, iOS via Unity
- **Networking**: IPv4, IPv6, tcpdump, nmap, wireshark

Experience

Software Engineer, *FedNat:* July 2015 - Current

- Designing and maintaining the backend software solutions for a quickly growing company
- Created and improved web applications using ReactJS w/ PWA and the Google Web Toolkit
- Improved system uptime for critical business processes by creating a process monitoring system
- Created email backend to communicate policy information to end customers and business stats to management
- Modernized software processes by updating build systems and moving version control from SVN to Git

Researcher, *Temple University, Dept of CS:* August 2013 - May 2015

- Designed the control system for the development and testing of a robotic controllable needle system for surgical applications
- Created a wearable eye tracking camera and an android application to track physical movement for Temple's Neuroscience department
- Assisted in the creation of real time video analysis platform utilizing Google Glass, OpenCV and Android for use in experimentation on wearables in law enforcement
- Benchmarked performance for video processing, battery life and network throughput for Google Glass
- Published results of the lab's research via writing papers and presenting at conferences
- Assisted students as a teaching assistant for CIS 1057 Computer Programming in C class

Network Engineer, *Temple University, Dept of Engineering:* August 2014 - May 2015

- Installed and configured a network storage system used by the Engineering school
- Maintained various Linux servers used by the department for FPGA development

Network Security Analyst and IPV6 Subject Matter Expert, *ICSA Labs/Verizon Business:* January 2006 - June 2010

- Tested network protection devices for security violations, worked with vendors to fix violations and published findings on ICSA website
- Authored the proposed IPv6 Network Protection Device test specifications for the U.S. Government's National Institute of Standards and Technologies' USGv6 program
- Designed ICSA's internal IPv6 testing program specifications and wrote software tools used in the program
- Worked with the Network Intrusion Device team to test products and improve the program

- Assisted in the virtualization of ICSA's test bed

Wireless Network Engineer, *Soapbox Systems:*, November 2004 - November 2008

- Installed and maintained wireless network infrastructure used by the travelling press corp during the 2004 and 2008 presidential elections
- Worked with the press to maintain their access and solve any unforseen problems during Presidential debates and political events

Network Operations Control Engineer, *Business Information Group:* December 2005 - January 2006

- Designed and maintained an infrastructure capable of monitoring hundreds of critical point to point radio systems throughout the country
- Maintained and monitored wireless networks installed by my company and 3rd parties such as AT&T's NYC cellular network and the Federal Aviation Administration

Network Engineer, *Business Information Group:* March 2003 - December 2005

- Built and maintained Linux and Windows Active Directory networks for customers
- Designed IPv4 networks and installed infrastructure such as routers, switches and firewalls

Published Works

Konh, Bardia, Harold H. Lee, Vincent P. Martin, Vincent Zhao, and Parsaoran Hutapea. 2015a. “Robotic Needling System for Brachytherapy Procedure.” In *International Conference on Automation, Cognitive Science, Optics, Micro ElectroMechanical System, and Information Technology*, 1–5. IEEE.

Konh, Bardia, Howon Lee, H. Harold Lee, Vincent Zhao, Vincent Martin, and P. Hutapea. 2015b. “Design, Development and Evaluation of a Two Way Actuated Steerable Needle.” In *ASME Smart Materials, Adaptive Structures and Intelligent Systems*, 1–5.

Zhao, V, HH Lee, VP Martin, B Konh, and Parsaoran Hutapea. 2015. “Nitinol Based Flexible Smart Needle Design.” In *Biomedical Engineering Conference (Nebec), 2015 41st Annual Northeast*, 1–2. IEEE.

Education

- Temple University, Philadelphia, PA - B.S. Electrical Engineering (Bio-Electrical Concentration)