

Vincent Martin - Software Engineer

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Technologies

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

Experience

Software Engineer, FedNat: July 2015 - Current * Designing, maintaining and improving the backend software solutions using Java and Kotlin * Creating and improving internal web applications via feedback from end users * Improved system uptime for critical processes by creating a process monitoring system * Streamlined software dependency management by migrating build system from Ant to Gradle * Migrated version control system from SVN to Gitlab leading to improved workflow and code reviews

Researcher, Temple University, Dept of CS: August 2013 - May 2015 * Designed the control system used in the development of a robotic steerable surgical needle * Created wearable eye tracking camera and an Android app to track physical movement for Temple's Neuroscience department * Assisted in the creation of real time video analysis app utilizing Google Glass, OpenCV and Android for use in experimentation on wearables in law enforcement * Published results of the lab's research via writing papers and presenting at conferences * Benchmarked performance for video processing, battery life and network throughput for Google Glass * Assisted students as a teaching assistant for CIS 1057 Computer Programming in C class

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 unforeseen 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.

Martin, Vincent, Adama Coulaby, Nathan Schaff, Chiu C Tan, and Shan Lin. 2014. "Bandwidth Prediction on a Wimax Network." In *Mobile Ad Hoc and Sensor Systems (Mass), 2014 Ieee 11th International Conference on*, 708–13. IEEE.

Education

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