

**DAVID LAPORTE, CISSP**

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I am an IT generalist with over 15 years of senior-level technical and leadership experience in networking, systems, and IT security. Architecting and troubleshooting large systems end-to-end is my passion. I have a tendency to think outside the box and am interested in opportunities that play to this strength.

**INDUSTRY EXPERIENCE**

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

*Director, Infrastructure Design and Engineering*

*Interim Director, Security*

**Cambridge, MA**

**February 2015 to Present**

**May 2016 to Present**

- Lead organization of 30+ staff with responsibility for the design, implementation, and ongoing operation of Institute networking, virtualization, computation, storage, security, and collaboration platforms
- Drove efforts with leading IaaS providers to establish dedicated connectivity and migrate compute/storage resources to the cloud. Led Exchange Online migration of IT organization and planned migration of MIT community.
- Oversaw growth of footprint and bandwidth of MITnet; lead contract negotiations with service providers and vendors to expand regional presence and deploy 100Gbps connectivity
- Primary Institute contact for incident response, attack mitigation, security engineering/operations, and security policy development

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

*Manager, Network Infrastructure and Security Operations*

**Cambridge, MA**

**December 2013 to February 2015**

- Lead team of four security analysts and engineers and served as primary technical resource for all Institute-related IT security matters, including monitoring and incident response
- Hands-on manager of team of 12 engineers with responsibility for network architecture, engineering, and on-going monitoring/support

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

*Senior Network Engineer*

**Cambridge, MA**

**November 2012 to December 2013**

- Hardened network elements against attack, including control plane protection, encrypted management access, two-factor authentication, and DDoS mitigation
- Built VRF/BGP-based routing policy server to implement blackholing and identity-based firewalling
- Instrumented network with flow and metric collection
- Implemented split DNS and moved key web properties to CDN

**HARVARD UNIVERSITY – NETWORK SERVICES GROUP**

*Manager, Network Systems and Management Services*

**Cambridge, MA**

**June 2011 to Present**

- Consolidated compute and storage resources on to Cisco Unified Computing System (UCS) and SAN storage
- Managed a team of six systems engineers, developers, and NMS gurus
- Responsible for University-wide deployment and operation of Splunk logging infrastructure, Infoblox DNS/DHCP, and custom integration using XML/SOAP and JSON/REST.
- Responsible for the NOC Portal - a home-grown application allowing University administrators role-based access to relevant metrics and service requests.

**HARVARD UNIVERSITY – NETWORK AND SERVER SYSTEMS**

*Network Services Architect*

**Cambridge, MA**

**July 2009 to June 2011**

- Deployed and managed QRadar SIEM, which monitors over 5Gbps of traffic and ~1500 events/second
- Implemented highly-available and modular authentication architecture for 802.1x, NAC, and VPN interfacing with University identity management systems
- Deployed IPv6 into production across wired/wireless networks and enabled native access to infrastructure services

**HARVARD UNIVERSITY – NETWORK AND SERVER SYSTEMS**

*Security Manager*

**Cambridge, MA**

**February 2005 to July 2009**

- Facilitated creation of NOC Customer Portal – a unified, role-based interface to NOC data, services, and metrics
- Deployed network access control (NAC) across student networks
- Coordinated incident response and forensics within Network and Server Systems
- Co-chair of ABCD Security Working Group
- Architected PCI DSS compliant infrastructures to facilitate e-commerce and point-of-sale transactions
- Integrated two-factor authentication into existing business processes

## HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER

### *Senior Network Security Engineer*

Cambridge, MA  
November 2000 to February 2005

- Provided security audits and vulnerability scans to University community
- Evaluated and deployed 802.11 wireless networking/authentications
- Implemented change management system for all network device configurations
- High-bandwidth, asymmetric anomaly and signature-based network IDS deployment
- Implemented and administered Harvard IPv6 demonstration network
- Technical contact for University VoIP pilot program

## HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER

### *Systems Engineer*

Cambridge, MA  
November 1997 to August 2000

- Created security policies and procedures for Network Operations Center
- Wrote and maintained software to administer e-mail aliases for all Harvard employees
- Designed, implemented, and maintained university-wide IDS infrastructure
- Deployed VPN solution to Harvard community
- Built RedHat kickstart and Sun Jumpstart build environments
- Developed DNS zone management system for Harvard namespace

## TEACHING EXPERIENCE

### HARVARD UNIVERSITY

#### *Lecturer – Extension School*

*CSCI-E46: Applied Network Security*

Boston, MA  
January 2016 to Present

### NORTHEASTERN UNIVERSITY

#### *Lecturer – Masters of Information Assurance Program*

*IA-5130: Computer Systems Security (on-campus and on-line)*

*Northeast Collegiate Cyber Defense Competition, White Team Captain*

Boston, MA  
September 2009 to June 2014

### HARVARD UNIVERSITY

#### *Teaching Fellow – Extension School*

*CSCI E-45: The Cyber World*

*CSCI E-170: Security, Privacy, and Usability*

*CSCI E-132: Advanced Topics in Data Networking*

*CSCI E-135: Computer Networks and Network Programming*

*CSCI E-131b: Communication Protocols and Internet Architectures*

Cambridge, MA  
June 2002 to Present  
September 2014 to Present  
September 2006 to June 2009  
January 2003 to January 2009  
September 2002 to January 2003  
June 2002 to January 2003

## EDUCATION

### NORTHEASTERN UNIVERSITY

#### **College of Computer Science**

Masters in Information Assurance

Boston, MA  
September 2006 to May 2009

### NORTHEASTERN UNIVERSITY

#### **College of Computer Science**

Bachelor of Science in Computer Science, 2000

Boston, MA  
September 1995 to June 2000

## TECHNOLOGIES

#### **Languages:**

Perl, UNIX shell scripting, HTML, PHP, SQL

#### **Operating Systems:**

RHEL, OS X, IOS, Windows Server

#### **Applications:**

Apache, MySQL, Postfix, ISC DHCP/BIND, Infoblox DNS/DHCP, Nagios

RANCID, NetMRI, Puppet, Splunk, F5 LTM/GTM, Statseeker

#### **Authentication:**

OpenLDAP, RADIUS/TACACS+ (Cisco ACS, Radiator, FreeRADIUS), Duo, 802.1x

#### **Security Devices/Software:**

Snort, Cisco ASA, Lancope Stealthwatch, Nessus

#### **Virtualization/IaaS:**

VMware vSphere, VMware vCloud Air, AWS

#### **Networking:**

IPv6 deployment, high-performance network monitoring, PCI DSS-compliant architectures,

WCS/WLC, Cisco routing/switching hardware, OSPF, BGP, CDN, VRF

## PROJECTS

### PacketFence

<http://www.packetfence.org>

Open-source network access control (NAC) solution

Co-creator and lead architect

Acquired by Inverse Inc., May 2008

## CERTIFICATIONS

Certified Information Systems Security Professional (CISSP)

Red Hat Certified Engineer (RHCE)

Cisco Certified Network Professional (CCNP, lapsed)

ITIL V3 (2011) Foundation

Ciena Optical Communications Certified Associate (OC-A)