

**Michael F. Hutt**  
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## **QUALIFICATIONS**

Software engineer with broad background in software development, TCP/IP networking, systems administration and release engineering. Co-founded Router Management Solutions and subsequently led the development effort for Cisco Multicast Manager. Proven ability to work independently and as part of global development teams.

## **PROFESSIONAL EXPERIENCE**

**Hutt Systems, Inc.**, Wantagh, NY **Jun 2007 – Present**

**Principal Software Engineer, Software Development and Network Design**

- Designed and developed an MVC web-based billing system for an electric submetering company in New York City using PHP/Symfony, Ajax, CentOS, MySQL, PostScript
- System Administration: DNS, Sendmail, iptables, svn code repository, secure offsite backup via crontab
- MySQL: data warehouse design (snowflake schema) for healthcare prediction algorithm development
- R: working with linear regression and classification models for healthcare prediction algorithms
- Perl: circuit optimization program for a wireless power beaming research project with NYIT/DoD
- OO Perl: module for IP address manipulation
- RoR website design and implementation for non-profit organization

**New York Institute of Technology**, Old Westbury, NY **Jan 2000 – Present**

**Adjunct Professor, Electrical and Computer Engineering (Part-time, concurrent with work above)**

**Courses Taught:**

- Computer Networks (Graduate)
- Introduction to Computer Networks
- Electrical Circuits I and Engineering Tools (MATLAB and PSpice)
- Introduction to Electrical Engineering
- Programming I
- High Speed Information Networks

**Cisco Systems, Inc.**, New York, NY **Feb 2005 - Jun 2007**

**Technical Leader, Cisco Multicast Manager**

- Continued the development of Router Management Solutions Multicast Management Tool as Cisco Multicast Manager
- Led development effort in transitioning critical portions of the application from Perl to C++ to improve performance
- Acted as Product Manager and provided all marketing collateral for the 2.4 release
- Provided customer presentations and training as needed

**Router Management Solutions, Inc.**, New York, NY **Aug 2003 – Feb 2005**

**Principal Software Engineer, Multicast Network Management**

- Developed the Multicast Management Tool and Route Monitoring Tool for managing multicast networks
- Prototyped the entire application in Perl – built on Apache/mod\_perl for Linux and Solaris
- Custom database design using BerkeleyDB in conjunction with MLDBM.pm
- Transitioned portions of the application to multithreaded C/C++ as necessary
- Performed all release engineering and managed the project with CVS and Bugzilla

**Hutt Systems, Inc.**, Wantagh, NY **Dec 2000 – Aug 2003**

**Principal Software Engineer, Software Development and Network Design**

Consulted for a large market data provider on the design and implementation of a multicast PIM-SM network for receiving real-time market data

- Designed L3 switched multicast network incorporating fully redundant Cisco Catalyst 6500s
- Developed custom network management solutions in Perl to facilitate managing the environment
- Developed Perl scripts to facilitate configuration of MRTG, Cricket, and Cisco Routers
- Integrated 3rd party apps with industry standard NMS applications (HP OpenView, IBM Tivoli)
- Developed a web based interface to query CiscoSecure user accounting logs
- Developed multicast sender/receiver programs to facilitate troubleshooting multicast networks.
- Provided detailed TCP/IP protocol analysis for Level 3 support engineers
- Automated analysis of tcpdumps using Perl scripts and tpslice

Developed an application in C/C++ to facilitate the optimal design of antenna arrays including the development of complex number and matrix/vector libraries

- Optimization of linear and planar antenna arrays
- Optimum pattern synthesis, i.e. extraction of element excitations used to create a specified array patterns
- Optimum synthesis to minimize sidelobe levels and/or power in the sidelobes
- Optimum synthesis of sum/diff patterns and complex valued element excitations and/or spacing
- Optimization methods incorporated measured 'in-situ' element pattern data along with element pattern data provided by advanced computational software such as NEC

**Cisco Systems, Inc.**, New York, NY

**Oct 1995 – Sep 2000**

**Systems Engineer III, New York Global Banking Region**

- Facilitated design and management of customer routed and switched networks
- Developed custom network management solutions for customers as necessary - Perl and Shell Scripting

**Chase Manhattan Bank**, 1CMP-13, New York, NY

**Jun 1994 – Oct 1995**

**Systems Specialist, Trading Floor Network Design and Engineering**

- Was responsible for Cisco Router, Synoptics Hub, and NMS configurations for Chase's trading floor
- Was involved in the initial design of a global Frame Relay/ OSPF backbone for Chase

## EDUCATION

**New York Institute of Technology**, Old Westbury, NY

**1998**

**Master of Science, Electrical Engineering, with distinction**

- John J. Theobald Graduate Achievement Award in Electrical Engineering

**New York Institute of Technology**, Old Westbury, NY

**1994**

**Bachelor of Science, Electrical Engineering, summa cum laude**

- Electrical Engineering Faculty Award

## TECHNICAL SKILLS

**Programming Languages:** C/C++, RoR, Perl, PHP/Symfony, UNIX Shell, JavaScript/AJAX, FORTRAN 77/90/95, Clipper/dBase

**O/S:** Linux, Mac OS X, Solaris, Windows

**Networking:** TCP/IP, Routing, Switching, Network Management, Multicast

## MEMBERSHIPS

- ACM Member
- IEEE Member
- Eta Kappa Nu, Electrical Engineering Honor Society

## REFERENCES

Available upon request