

# Michael Lee Benson

benson.m@neu.edu

## School Address

112 Hillside Street, Apt 3  
Boston, MA 02120  
(781) 249-1465

## Permanent Address

57 October Lane  
Weston, MA 02493  
(781) 249 – 1465

## EDUCATION

### **Northeastern University, Boston, MA**

*Candidate for Bachelor of Science in Electrical Engineering*

May 2007

Honors: Invited to join Eta Kappa Nu the electrical and computer engineering honors society as well as invited to join Tau Beta Pi, the national engineering honor society, and invited to join Pi Sigma Alpha, the National Political Science honor society. Member of the National Society of Collegiate Scholars.

Multiple Term Dean's List, GPA: 3.771

Courses: Wireless Communication Systems, Electromagnetic Fields and Waves, Antenna Theory and Microwave Networks, Microwave Circuit Design, Electronics, Discrete Systems, Circuits 1,2, Calculus 1-3, Physics 1-4, General Chemistry 1,2, Engineering Design (AutoCAD), Engineering Problem Solving, Electrical Machines, Computer Networks, Noise and Stochastic Processes, Biomedical Engineering Signal Processing and Imaging, Politics of Budgeting and Taxation, Public Policy and Administration, Communication Systems 1

Activities: Student Government, Pep-Band, NU & Improv'd, Kappa Sigma Fraternity

### **Weston High School, Weston, MA**

June 2001

Honors: Honor Roll & High Honor Role, Principal's "Mench" Award, Entrepreneur award

Courses: Honors curriculum, AP. Physics (C) AP. Calculus, AP. United States History, AP. Computer Science (AB), Design Technology (CAD), Senior Social Science

Activities: Student Advisory Committee (3 years), Student member of the Weston School Committee, Virtual Weston (4 years), Webmaster for the Town of Weston 2000 – 2001, Varsity Wrestling team, Israel Trip, Spanish Exchange, American Music Abroad Music Trip/Tour.

## SKILLS

Operating Systems: LINUX, UNIX, Windows 2000, NT, ME, 9x, 3.1, XP, MAC OS

Hardware Installation: IDE units, RAM, Ethernet Cards, External units, plug and play devices, etc.

Internet: Web browsers, email, ftp, telnet, and xnews, sftp, putty, etc

Applications: AutoCAD, MatLab, MS Office Suite, Hyper studio, Adobe Photoshop Suite, Adobe Premier, Dreamweaver, LabView, Express PCB, PCB 123, pSpice

Languages: C, C++, P.E.R.L., Basic, Visual Basic, Visual C++, Visual Studio .NET, JavaScript, HTML, MatLab script, and MySQL, GPIB.

Circuitry: Component Selection, Soldering

## EXPERIENCE

### **The MITRE Corporation, Bedford, MA**

July 2006 – December 2006

#### Technical COOP

Developed both software and hardware for projects within MITRE's Air Force center for use by the company and its sponsors that serve in the national interest. Programmed in C, PERL, and MATLAB and also utilized the pSpice simulation language. Developed a standalone driver for a Tektronix DPO7254 oscilloscope to allow for advanced human / computer – device interactions. Developed a new graphical plotting capability for Matlab that allows waveforms to be manipulated in real-time in the graph window.

Designed a 24 bit serial to parallel bridge allowing a single data line to signal up to 24 unique digital devices.

**Millennial Net, Burlington, MA**  
Software Engineer

September 2005 - June 2006

Developed software in conjunction with the Software Engineering team for commercial distribution of Millennial Net's wireless sensor networks. Programmed in C and Visual C++.net for both an embedded microchip environment as well as a PC controller. Worked to enhance and modify existing network protocol to support advanced device control features. Coordinated with the Product Assurance team to develop test plans for software and hardware under review. Designed an over the air packet sniffer system, generated a fully reviewed engineering design specification and implemented the specification in Visual Basic and C. Assisted the Product Assurance team in testing these systems.

**Millennial Net, Burlington, MA**  
Quality Assurance Engineer

July 2004 - January 2005

Assisted in the design and implementation of quality assurance procedures and tests for each of the company's wireless sensor network product lines. Developed hardware test tools to be used by the entire company. Developed automated software test applications to be used by the entire Quality Assurance Group prior to the release of a product. Served as a Field Application Engineer and worked on site at a client's office building. Worked closely with all other engineering groups and offered support to the sales and marketing groups.

**Student Government Association, Boston, MA**

Summer 2002 - Summer 2004

Vice President for Financial Affairs, Undergraduate Student Body

Represented over 14,500 undergraduates on all financial matters. Served on the University's committee on funding priorities for two years. Directly oversaw the management, allocation, and use of over \$1.3M in student fees. Managed a grass roots campaign to adjust the students' self imposed activity fee. Assisted numerous students with their financial aid / customer service grievances. Provided direct services to 100+ students / constituents while providing indirect services to all 14,500 undergraduates.

**World Association for Cooperative Education (WACE), Boston, MA**

Summer 2002 - Spring 2006

Programmer / Web Designer / Database Manager

Contracted to convert an obsolete Microsoft Access database into a multi-user mySql database accessible through the WACE website. Contracted to integrate credit card processing technology and student - position placement technology into the WACE member portal.

**Won For All Corporation, Stoneham, MA**

Summer 2001

Lead Programmer

Contracted to design and create a mySql database and web portal to serve as the company's backbone. Additional jobs included designing company website and creating the WonForAll Mall interface.

**Weston Centre Grocery, Weston, MA**

Summer 98 - 2001

Assistant Manager

Worked between 5 - 60 hours per week primarily as a cashier and inventory manager. Served as the store's manager in the absence of the manager. Supervised and provided guidance to an average of 5 employees.

## **INTERESTS**

Computers: Networks, wireless sensor networks, hardware, learning how things work.

Sports: Football, baseball, high school wrestling

Politics: Federal Policy, Local Government, U.S. Congress, Supreme Court.

Musical: Trombone

Volunteer work: I have volunteered for many causes including a local community organization where I taught senior citizens how to use common computer applications. I have also volunteered for Sen. Kerry's Senatorial campaign.