

# Eric Evarts

Other contact info available upon request

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## Education

Brandeis University 2002-present

Graduation May 2006:

B.S. Physics

B.S. Computer Science

## Honors and Activities

National Society of Collegiate Scholars

Brandeis Physics Club

BTV65: Brandeis Student Television

## Experience

General Physics Laboratory Course

- Introduction to various Lab techniques
- Error propagation
- Basic Lab Reports

2 Electronics Lab Courses

- Build Analog Electronic Circuits
- Analyze Analog Electronic Circuits
- Build Digital Logic Circuits
- Program Digital Logic Devices using ABEL

Modern Physics Course

- Calculating Waves
- Brief introduction to Relativity
- Introduction to Quantum Mechanics

Electromagnetism Course

- Calculating Electric Fields
- Calculating Magnetic Fields

Algorithm Design and Analysis Course

- Big O analysis of algorithms
- Designing algorithms
- Programming in C

Theory of Computation Course

- Examination of how computing works
- A look at the theoretical limitations of computers

Computer Programs: Structure and Interpretation Course

- A theoretical look at programming

- Programming in MIT Scheme
- Lexical Parsing

#### Operating System Design Course

- Examination of the concepts and design techniques involved with operating systems
- Programming in Java

#### Cryptology Course

- Examination of the security of present Cryptosystems
- In depth understanding of the workings of modern public key cryptosystems such as RSA and El Gamal systems

#### Present Enrollment:

##### Quantum Theory Course

- A more in depth look at Quantum Mechanics than Modern Physics

##### Astrophysics Course

- A general look at astrophysics

##### Microprocessor Lab Course

- Design and program simple microprocessors
- Learn to design systems for data capture for experiments

##### Database Management Systems Course

- Learn how to structure a database
- Learn to effectively use SQL
- Preparation for Database Administration

##### Human Computer Interaction Course

- Critical examination of interface design
- Learn techniques for designing more user friendly interfaces

## Other Activities and Leadership Roles

#### DeMolay International – Leadership Building Organization for young men

- Actively participating member since joining in May 1997
- Past Master Councilor (President of local chapter)
- Past State Master Councilor of Connecticut (President of Statewide organization)
- Chevalier - Highest Honor given to an Active Member of DeMolay for Distinguished service to DeMolay and society
- William Campbell Medal – Highest Honor given by Connecticut DeMolay
- For more information, [www.demolay.org](http://www.demolay.org) and [www.ctdemolay.org](http://www.ctdemolay.org)

#### Newington Community Television

- Active Member
- Involved in various projects to renovate the studio

## Computer Techniques

- Programming languages
  - C
  - Java
  - MIT Scheme

- Operating System Experience
  - Windows (95, 98, 2000, XP)
  - Linux
  - Mac OS X
- General Computer Repair
- Microsoft Office (Word, Excel, PowerPoint, Outlook, FrontPage, Publisher)
- Adobe Acrobat Professional
- Computer Networking
- Video Editing Experience
  - Adobe Premiere
  - Final Cut Pro

## **Other Information**

- Speak some Spanish
- After Undergrad I intend to go to graduate school to obtain an advanced degree in Physics or Computer Science
- US Citizen