

# CHRISTOPHER D. HOLLEMAN

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## EDUCATION and TRAINING

### **WaveRider 900MHz Training** - May, 2003

Three day intensive hands-on training for WaveRider point to multipoint 900MHz wireless systems. Topics included theory of operation, site engineering, troubleshooting, RF propagation basics and system benchmarking.

### **Rice University** - May, 1999 to September, 2000

M.S. in Computer Science GPA 3.86

Thesis: "Path Planning with Medial Axis Hints"

Publications on request. Co-taught senior-level robotics course.

### **Rice University** - August, 1995 to May, 1999

Computer Eng. (BSEE), Computer Science GPA 3.74

Courses include: operating systems/concurrent programming, team programming, algorithmic robotics, digital design, languages, graphics.

Senior project: Design and implementation of the electrical subsystem of a small tethered submarine.

### **North Carolina School of Science & Math** - August, 1993 to May, 1995

## WORK EXPERIENCE

### **Independent Contractor** - November, 2004 through present

Contract with nonprofit ISP designing and implementing open-source integrated account management and billing system.

### **Internews Network Afghanistan** - January, 2004 to April, 2004

Contracted as a GIS trainer and head of mapping section in Kabul office for an international open-media non-profit. Developed ArcView extensions for predicting FM transmitter coverage. Created nation-wide signal coverage maps for AM and FM radio and evaluated prospective transmitter sites. Trained four Afghan staff in applying ArcView and other packages to radio-mapping projects.

### **Mountain Area Information Network** - March, 2003 to January, 2004

Wireless network administrator for 900 MHz wireless broadband project. Included developing in-house web-based GIS system for geocoding customer addresses and correlating subscriber location with RF propagation predictions. Work included a significant amount of time in the field evaluating tower sites for 900 MHz and 5.8 GHz deployments as well as installing antennas at customer sites. Also directed tech support for wireless-related issues and trained installation and support staff in outlying counties.

### **Instrument maker** - August, 2002 to present

Crafting handmade, affordable 5-string banjos.

### **Zocalo, site developer** - February, 2003 to April, 2003

Contract for handling bug fixes and feature requests for OpenACS-based school administration website.

### **Innovai.com, software consultant** - November, 2002 to March, 2003

Developing marketing recommendations engine for San Francisco based startup. J2EE framework supported by Postgres and Cloudscape databases.

### **Sandy's Music** - October, 2001 to March, 2002

Instrument repair and restoration, primarily guitars and early banjos. Instructor for clawhammer banjo.

### **3GWT Consulting** - January, 2002 to March, 2002

Independent contractor with small technical consulting partnership. Software development for database-backed websites. Work included developing a content management system for small organizations, authoring technical portions of proposals, and a document conversion service.

**ArsDigita University** - January, 2001 to July, 2001

Teaching assistant and systems administration for non-profit post-baccalaureate CS program. Preparing short lectures, one-on-one assistance and tutorials. Troubleshooting network issues and handling Oracle database and Unix administration.

**Rice Computer Science Department** - May, 1997 to May, 1999

Research assistant in algorithmic robotics. Developing and implementing algorithms in C++ to perform path planning for flexible surfaces. Also included software maintenance, initiating new directions for research and contributions to several papers.

**Rice Computer Science Department** - August, 1996 to October, 1996

Lab assistant for intermediate level programming course. Included work with object oriented techniques and Java, and helping students one-on-one.

**Charlotte's Web** - May, 1996 to August, 1996

Summer intern with fast-paced freenet and community information provider. System administration on Linux and Solaris, including development of Linux-based touchscreen kiosk solution. Also created a web interface to the user database and network usage statistics.

## **TECHNICAL SKILLS**

**Programming** C/C++, Java, Scheme, PERL, HTML, Python, Tcl, SQL, Avenue  
Experience with Linux and other Unices, and Windows 2000/XP

**Software** Matlab, AOLserver, Apache, PostgreSQL/PostGIS, Oracle8, ArcView, Cloudscape, SQL Server, MapServer, OpenLDAP.  
Proficient in general office productivity and multimedia applications.

## **HONORS**

Eagle Scout

National Physics Team (1995)

President's List (1995-96)

Waters Undergraduate Engineering Scholarship