

# Memorandum

**To:** Ernest Bowman-Cisneros (USGS)  
**From:** Team Fugu: *Erik Wilson, Nauman Qureshi, Thad Boyd, Ben Atkin*  
**CC:** Margaret Johnson (USGS), Eck Doerry (NAU)  
**Date:** 1/28/2004  
**Re:** Team Inventory

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## Introduction

The purpose of this memo is to provide you with an inventory of our team's talents, skills, and special interests in order to explore what our team's strengths and weaknesses are. The sections of this memo include: an introduction of the team members and roles, preliminary tasks assigned, and special talent deficiencies. Also attached are profiles for each of the team members followed by corresponding resumes.

## Team Members and Roles

The members of *Team Fugu* and their associated roles are as follows:

1. **Erik Wilson** – Team Leader / Organizer
2. **Nauman Qureshi** – Documentation / Recorder
3. **Thad Boyd** – Website Developer / Facilitator
4. **Ben Atkin** – Communicator / Research

## Preliminary Tasks Assigned

The following preliminary tasks have been assigned:

- **Entire Team:** Become familiarized with OpenBSD, this includes installing the operating system at home if possible and researching documentation on the web (*the OS has already been installed on a Sparc64 workstation located at the CET which is dedicated to the project*).
- **Nauman Qureshi:** Create a skeleton of the project notebook with relevant sections included.
- **Thad Boyd:** Begin creation of the team website which will be used to host project files and documentation (*located at <http://www.cet.nau.edu/~fugu/>*).
- **Ben Atkin:** Research uses of CVS repositories for project files and find useful sources of shell scripting guides related to OpenBSD.

## Special Talent Deficiencies

Although our team has had experience with many Linux distributions none of us have used OpenBSD within a professional or educational setting. Additionally we are fairly inexperienced in the use of shell scripting which may be required for either modification of the OS installation or to create a patch update system. To compensate for our lack of OpenBSD experience we are reading the online documentation and becoming familiar with the OS by installing it at the college and at our homes. Additionally, Ben Atkin will research shell scripting as it relates to OpenBSD and provide details by February 2<sup>nd</sup>.

# Member Profile:

# Erik Wilson



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## Upper Division Courses Taken:

- CSE 315: Automata Theory
- CSE 470: Intro to Intelligent Systems
- CSE 497: Independent Study (Interdisciplinary Research)
- CSE 386: Software Engineering
- CSE 499: Computer Networks
- CS 401: Ethics in Computer Science
- CS 421: Algorithms
- CS 455: Modeling Reactive Systems
- CS 480: Operating Systems
- CS 499: Unix Administration (*Currently Enrolled*)
- MAT 316: Intro to Linear Algebra

## Work Experience:

- Currently working as Web Administrator for the College of Engineering and Technology.
- Familiar with software such as Apache, MySQL, and ht://Dig.

## Special Skills:

- Proficient with Perl, especially Perl's regular expressions
- Intermediate Emacs user, I have been using it for the past several years.

## Special Interests:

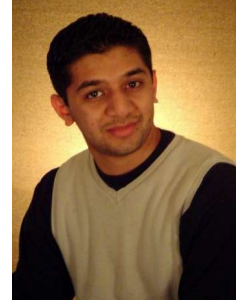
- Advocate of open source / free software.
- Have been using a Linux distribution at home since the mid-90s.
- I am currently investigating 64-bit operating systems for home consumption.

## Comments:

I am excited to work on the OS Tools for OpenBSD project, I feel we will be able to contribute greatly to the USGS and hopefully our work will be used for several years to come.

## Member Profile:

# Nauman Qureshi



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### Upper Division Courses Taken:

- **CS 315:** Automata Theory
- **CS 400:** Computer Architecture
- **CS 401:** Ethics in Computer Science
- **CS 421:** Algorithms
- **CS 480:** Operating Systems

### Work Experience:

I have worked for the Northern Arizona University (NAU) computer labs. Mainly my job was to help out the users using the lab, this constituted helping them use various software tools, check to see if any hardware of the computer their using is not properly working, and to teach them a little bit of the basics of computer usage. I have been working for these labs for over a year now and am well comfortable with user level communication.

### Special Skills:

- Worked mostly on projects using JAVA as the primary language. I do have a little experience on working in C/C++ and also vaguely familiar with maple.
- Worked mainly on Windows and just a little amount on Unix systems.
- Apart from technical capabilities, I do hold a quality of bonding well with fellow partners and classmates and enjoy learning new things from others.
- I am fond of participating in delivering presentations to different parties and societies.

### Special Interests:

I hold a lot of interest in networking of computer systems. Getting involved in using different Operating Systems is one of my newly born interests. Last semester I took the course of Operating Systems (CS 480) and learnt a lot on how one works. Implementing new ideas into an already existing OS sounds like fun and I would be interested in it. I do hold great interests in providing a good documentation of reports/projects. I believe in a well-organized layout of the systems that I work on.

## Member Profile:

# Thad Boyd



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### Upper Division Courses Taken:

- **CS 315:** Automata Theory
- **CS 386:** Design
- **CS 396:** Principles of Languages
- **CS 421:** Algorithms
- **CS 455:** Reactive Systems
- **CS 480:** Operating Systems
- **CS 481:** Compilers
- **MAT 316:** Linear Algebra
- **MAT 318:** Number Theory

### Work Experience:

Worked for the Roosevelt School District, Phoenix, AZ, summer 2001. Mostly involved network maintenance tasks.

### Special Skills:

- Open-source enthusiast, experience with multiple Linux distributions, especially BSD-like Slackware and Gentoo.
- Language enthusiast. Expect to complete linguistics minor in Fall '04. Should help with documentation.
- Web design knowledge. Nothing terribly fancy, but compliance with XHTML 1.1, CSS standards.

## Member Profile:

# Ben Atkin



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### Upper Division Courses Taken:

- **CSE 315:** Automata Theory
- **CSE 386:** Software Engineering
- **CSE 396:** Principles of Languages
- **CS 421:** Algorithms
- **CS 455:** Modeling/Reactive Systems
- **CS 480:** Operating Systems
- **MAT 316:** Intro to Linear Algebra

### Work Experience:

- Website Design (HTML)
- Document Editing

### Personal Interests:

- Programming Languages
- Hardware Design
- Graphical User Interfaces

**Phone:** (928) 864-1346  
**Email:** eew6@cet.nau.edu

**Address:** 400 E McConnell Dr #84  
Flagstaff, AZ 86011

***Resume:* Erik**

**Wilson**

# Nauman Qureshi

## Objective

Obtain a position as Computer Scientist.

## Experience

### Support Technician

10213 N 55<sup>th</sup> Street

- Supported Windows XP, Vista, Windows 7 software packages.
- Diagnosed hardware/software issues on personal computers.
- Received special security access for user, server, and building administration.
- (2000–2001; Information Technology - CET - NAU; Flagstaff, AZ)

Baradise Valley, AZ 86003  
 (480) 235-1424  
 naumanpervez@hotmail.com

## Summary:

Aggressive, results-oriented individual seeking a challenging opportunity that will utilize my skills, education and experience. Known for the ability to take on new challenges, think globally, learn fast and deliver results.

### Web Developer

Created NAU's Engineering website (<http://www.cet.nau.edu/>).

## Skills:

- Utilized PERL, JavaScript, and databases to create dynamic content.
- Migrated commercial server software to equivalent free public software.
- Operating Systems – Windows XX, XP, Vista, Unix, MSDOS, Macintosh
- Language – C++, Java, C, Fortran, Matlab, Maple, C#, MS Office - NAU; Flagstaff, AZ)
- Applications – MS Office, MS Project, Logic Works, Maple, Minitab, Matlab

### Software Engineer

- Developing control systems for wastewater management.
- Strong Communicator Goal Oriented Aggressive
- Leader Created documentation for organized software. Strategic
- Tactical Used National Instrument's LabView for project development. Competitive

## Courses:

- (2002; Wastewater Demonstration Project - CET - NAU; Flagstaff, AZ)
- Technical Writing Software Design Operating Systems
- Digital Design Algorithm Design Computer Architecture
- Compiler Construction (in progress)

### Independent Study (Interdisciplinary Research)

## IFC

- Developed simulation of wastewater using Javax/Swing
- Created custom graphing system to describe diurnal flow of water.
- Managed the proper running of systems and Macs in the computer labs.
- Incorporated complex Linear Algebra packages for curve fit to data.
- Helped the students using the facility in the problems encountered by them.
- (Summer 2002, sponsored by Dr. Trota - CET - NAU, Flagstaff, AZ)
- Troubleshooting Computers with defaults in them using different software and hardware skills.

## Education

- Developed many professional level skills on how to deal with aggressive users.
- Continuing student (Senior), seeking degree in Computer Science.

08/02 – 01/03

### Kerr Cultural Theatre, Scottsdale AZ Computer Tech.

Cumulative GPA of 2.95  
 Was the Computer Tech. at Kerr, mainly helped any problems encountered with the computers.

## References

- Using the ticketing software to produce tickets for shows.
- Helping the customers with satisfactory results.
- Created a user-friendly forum for information and satisfaction.

Thomas Baca

Paul Trota

Manager, Information Technology,  
 College of Engineering & Technology

Professor, Civil & Environmental Eng  
 College of Engineering & Technology

## Activities:

- President - Projekt N-Qore (Musical Band Promotion Company)
- President - Muslim Student Association (MSA) Northern Arizona University
- Golf, Cricket, Hiking, Learning new Languages, and Traveling

PO Box 15600, Flagstaff AZ 86011-5600,  
 (928) 523-2088, fax (928) 523-2300

PO Box 15600, Flagstaff AZ 86011-5600,  
 (928) 523-2088 fax (928) 523-2300

[Thomas.Baca@nau.edu](mailto:Thomas.Baca@nau.edu)

[Paul.Trota@nau.edu](mailto:Paul.Trota@nau.edu)

## Languages:

English, Urdu, Hindi, Punjabi, Arabic

## Education:

Northern Arizona University, Flagstaff AZ  
 Bachelor of Science, Computer Science

**Resume of Thad Boyd**

1024 E. Balboa Circle      PO Box 09626  
Tempe, AZ 85282      Flagstaff, AZ 86011  
480 967-7038      928 523-3013  
thad\_x\_boyd@cox.net

**Experience**

Computer technician  
Reference: Rene Castaneda, Department Head, 602 2434878  
Tasks included storage, refurbishing, inventory, technical support, troubleshooting, repair.  
Roosevelt School District, Phoenix, AZ, 2001

**Education**

Major: Computer science    Expect to complete: December 2004  
Minor: Mathematics      Completed: May 2003  
Minor: Linguistics      Expect to complete: December 2004  
Relevant courses:    capstone project: OpenBSD tools      Spring 2004  
   data structures      Spring 2001  
   microprocessors      Fall 2002  
   interdisciplinary engineering design      Fall 2002/Spring 2003  
   technical writing      Fall 2003  
   operating systems      Fall 2003  
   algorithms      Fall 2003  
   modeling reactive systems      Fall 2003  
   compilers      Spring 2004  
   languages      Spring 2004

Northern Arizona University, Flagstaff, AZ, 2000-present

Comptia A+ Certified Service Technician, 2000

Graduated Tempe High School with honors:      National Honors Society,  
   International Thespian Society

Served in Students Recycling Used Technology (StRUT).  
Reference: Douglas Taysom, head of StRUT, 480 967-1661, ext. 24117  
2000

**Programming languages**

C, C++, Java, Basic, Ada 95

**Operating systems**

Microsoft: DOS 6.2, Windows 3.1, 95, 98, ME, 2000, XP  
MacOS System 2+  
Linux: Slackware, Gentoo, Mandrake, Red Hat  
BSD: OpenBSD, MacOSX

**Web browsers**

Netscape 1+, Internet Explorer 3+, Mozilla, Mozilla Firebird, Opera, Konqueror, Safari

**E-Mail**

Outlook, Outlook Express, Netscape 3+, Eudora 4+, Mozilla, Mozilla Thunderbird, Mutt, Pine

**Hardware**

Macintosh Plus, Classic, PowerPC G1,2,3,4  
Intel 286, 386, 486, Pentium 1/2/3/4, Celeron  
AMD 486, Duron, Athlon, Athlon XP, Sparc 5



# Résumé of Benjamin Michael Atkin

## Computer Scientist

7360 E. Bader Rd.  
Flagstaff, AZ 86001-8013

(928) 779-6218 (permanent phone number)  
(928) 523-3783 (on campus)  
e-mail: bma3@dana.ucc.nau.edu

### Objective

An entry level position in systems or applications programming beginning January 2005.

### Experience

Student Help Desk and  
Computing Lab Assistant  
Northern Arizona University  
Flagstaff, AZ

Responsible for assisting students in personal computer and student lab account setup and maintenance. Assisted students in setup of LAN and dial-up connections. 2001-2002.

Website Designer  
Northern Arizona University  
Flagstaff, AZ

Redesigned the physics website. Coded in plain HTML. Gathered information, wrote content, created navigation graphics, and published photos. 2000-2001.

Website Design and Maintenance  
Flagstaff Design & Const., Inc.

Built and maintained construction company website. Collected information from many different sources. Set up hosting. Revised two 200+ page manuals. 1999-2003.

### Education

B. S. Computer Science  
Northern Arizona University  
Completion in May 2004

Coursework: Programming Languages, Operating Systems, Reactive Systems, Algorithms, Physics, Calculus

Clubs and Organizations: NAU IEEE/CS chapter, NAU Intramurals, Association of University Residence Halls, Linux Users of Northern Arizona.

### Skills

Programming Languages: Perl, Python, Scheme, C/C++, Java, Assembly, Ada, SQL

Design Topics: User Interfaces, Databases, Interpreters, File Systems

Software: Linux Distributions (Red Hat and Gentoo), emacs, Mozilla, OpenOffice, Postgresql, Apache

### References

Dr. Tim Porter  
Chair, Dept. of Physics & Astronomy

P. O. Box 6010, Flagstaff, AZ 86011  
(928) 523-2540

Tom Atwood  
President, Flagstaff Design & Construction, Inc.

2900 N. West Street, Flagstaff, AZ 86001  
(928) 774-5097

Mada Kay Morehead  
(Personal Reference)

1024 E. Balboa Circle, Tempe, AZ 85282  
(480) 967-7038