

Software Plan

Smart Scheduling

Requested by:

Dr. Robert Yoder
Associate Professor of Computer Science
Computer Science Department Head
Siena College

Proposed by:



Tom Mottola
Jason Czajkowski
Brian Maxwell
Meghan Servello
Collin Lefebber
Jonathan Smith

September 24, 2010

Version 1.1
Revised on 10/8/10

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Problem Definition

1.1 Problem Definition

Client Dr. Robert Yoder, head of the Computer Science Department at Siena College, is faced with the difficult problem of scheduling a semester of classes while balancing teachers' schedules within the constraint of classroom availability. Currently Dr. Yoder is burdened with the task of using inefficient manual methods without any self-checks. These manual methods lead to errors in scheduling and confusion amongst faculty members. Dr. Yoder desires an implementation for classroom scheduling that is flexible, and will easily allow him to move classroom occupancy around.

1.2 System Justification

The purpose of this project is to create a web application which efficiently schedules teachers' classes with classrooms. The application will allow teachers and classrooms to be added, changed, and viewed simultaneously. The database connected to this application will also house previous semesters' schedules, and allow it to be reloaded and drawn upon as a resource.

1.3 Goals for the System and Project

The goal for this application is to provide Dr. Yoder the ability to schedule without teachers and classrooms conflicting. Also the project is designed to work on a larger scale, and to adapt to other clients scheduling needs. The application will have editing capabilities, and be able to use data from previous schedules.

1.4 Constraints on the System and Project

At this point in time there are no constraints on the project.

1.5 Functions to be provided

- A secure login system.
- Guaranteed secure data storage.
- Ability to create, edit, and recall previous schedules.
- Ability to simultaneously view a subset of schedules.

- Ability to generate printable reports on teachers and classrooms specific schedules.
- Ability to add black-out time periods where classes cannot be scheduled.
- Ability to find common unscheduled timeslots for teachers, as well as classrooms.
- Warning system to follow guidelines specified by Siena College.
- Classes can't be scheduled simultaneously if one requires the other.

1.6 User Characteristics

Dr. Yoder will be the primary user of the scheduling application. He will be scheduling teachers as well as classrooms. Dr. Yoder will be able to view previous schedules to help create the current semester's schedule. Dr. Yoder will also be able to look up common free time for departmental meetings. Teachers will also be able to view the application. Teachers will be able to view the completed schedule, but unable to edit anything without permissions. Students will be able to view the schedule, but be unable to edit anything. These schedules will primarily be displayed outside of classrooms. This is where students will most frequently come into contact with them.

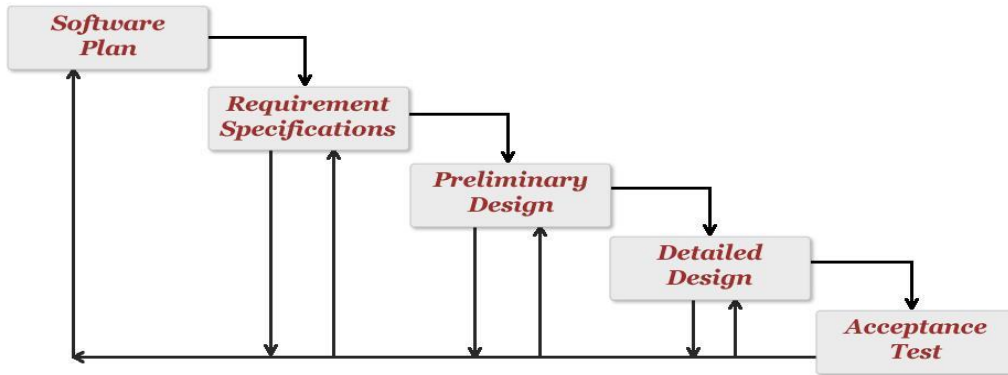
1.7 Development/Operating/Maintenance Environments

The scheduling application will be developed in the Software Engineering lab, and will be worked on by team Empire Unlimited. Dr. Yoder will have full access to the finished application and be able to create and modify schedules. Teachers in the Computer Science Department will potentially be able to view the applications (the project) schedule. This part of the project will be determined as our team finds out more about the project specifications. Maintenance will be done by the administrator of the program after it is put in use.

To view the development environment resources, please see 2.3.

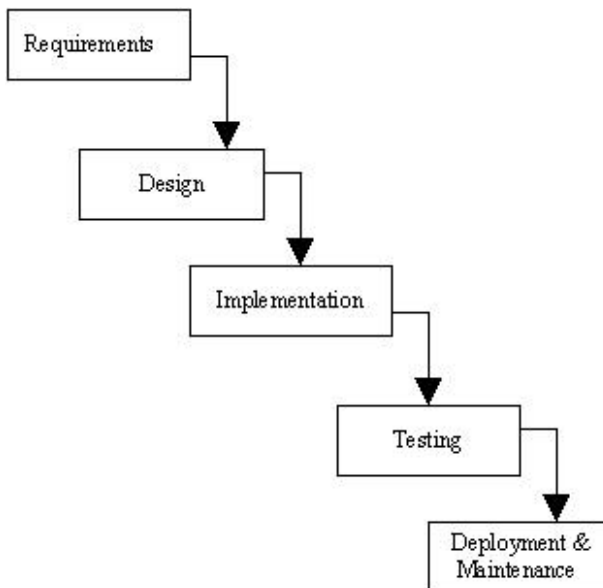
1.8 Solution Strategy

Empire Unlimited will use a combination of the Classic Waterfall Model and the Spiral Model. The Waterfall Model and Spiral Model include:



- **Software Plan**- The team will examine the problem, and determine the Project Definition, as well as create a plan to solve the problem.
- **Requirements Specification** - After client meetings, more specific and in-depth specifications will be determined.
- **Preliminary Design** – Empire Unlimited will use the requirement specifications to create a basic project design.
- **Detailed Design** – The preliminary design created in the previous step will be tweaked and improved, as well as turned into code. This will turn into the basic program. This will be done in the Spring semester of 2011.
- **Acceptance Test** - The application is finished and tested. This step will also take place in the Spring Semester of 2011.

Empire Unlimited’s model is based off the classic waterfall model, which looks like the following:



Another contributing factor to Empire Unlimited's model is the Software Engineering class model, which is:



1.9 Priorities of System Feature

The primary feature of Smart Schedule is providing an interface that professors like our client Dr. Yoder can manage (add, edit) available classrooms, class offerings, and available professors to organize a department based schedule for a semester. Users will be able to view and print these schedules as well as specific reports based on a particular resource (professor, classroom). These schedules will also be stored for re-use and reference purposes.

1.10 System Acceptance Criteria

Smart Scheduling will contain, but will not be limited to the following features:

- Users can manage available classrooms, professors, and labs.
- Users can generate a detailed report about any specific classroom, professor or lab.

- While managing resources users will be notified of scheduling conflicts and constraints.
- Smart Scheduling will store previous schedules for future reference.
- Previous schedules can act as templates for new schedules.
- The system will have the ability to find common free times among professors to schedule meetings.

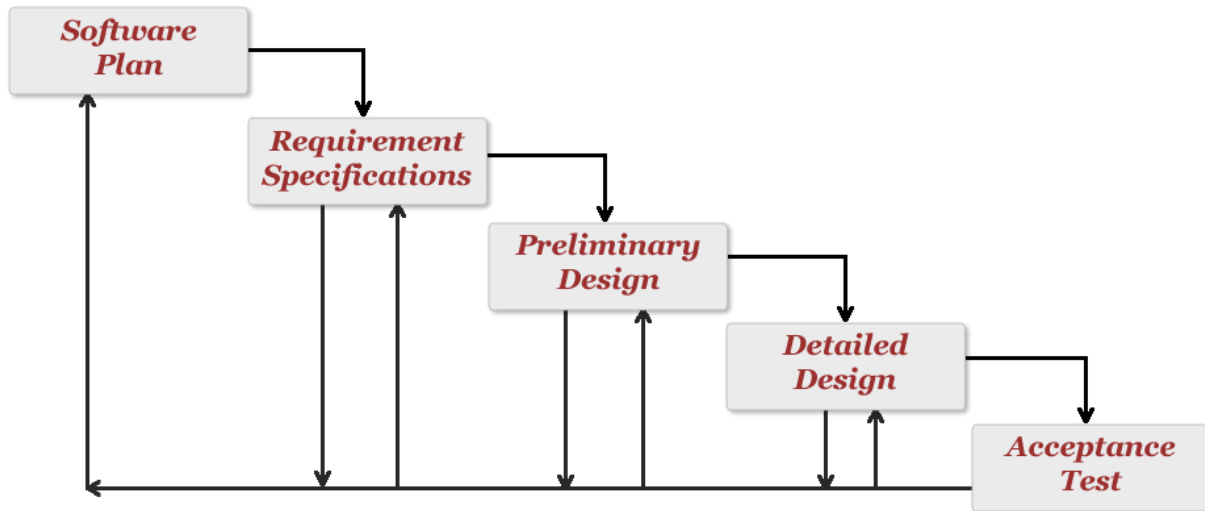
1.11 Sources of Information

Information in our document was drawn from our client meetings with Dr. Yoder, previous Software Engineering projects, and other lectures and documents available through Dr. Lederman and Software Engineering lectures.

Project Plan

2.1 Waterfall Model

Empire Unlimited's project is modeled after a mixture of the Waterfall and Spiral Models.



Software Plan- The team will examine the problem, and create a clear problem definition and acceptable solution. These will be determined by group and client meetings.

Requirements Specification - After client meetings, goals of the project are recognized. The requirement specifications document establishes these goals in a clear manner, so all parties involved in the project understand each other.

Preliminary Design – The goals in the requirement specifications document are placed in an outline to be programmed.

Detailed Design – The outline from the Preliminary Design step will be turned into actual code. Project goals are checked to see if they are reached. This step will be started in the Spring Semester of 2011.

Acceptance Test – The application finished and tested, as well as delivered to the client Dr. Yoder. This step will take place in the Spring Semester of 2011.

2.2 Organizational Structure

Empire Unlimited is comprised of the following members:

<u>Name</u>	<u>Email</u>	<u>Phone Number</u>
Thomas Mottola	td30mott@siena.edu	(631) 312-4624
Brian Maxwell	bd21maxw@siena.edu	(518) 461-9334
Meghan Servello	ml29serv@siena.edu	(845) 548-8519
Collin Lefeber	cf24lefe@siena.edu	(860) 806-1604
Jason Czajkowski	jr03czaj@siena.edu	(315) 250-3136
Jonathan Smith	jb01smit@siena.edu	(518) 487-1938

Empire Unlimited's organization is comprised in the following manner:

Thomas Mottola	Team Leader Organizes team and client meetings, distributes the workload and overall guides the team throughout the semester
Brian Maxwell	Lead Software Developer Provides insight into project design, as well as helps maintain team website.
Meghan Servello	Organizational Information Manager Maintains all documents regarding the project, as well as writes notes for team and client meetings.
Collin Lefeber	Web Master Develops and maintains the team website, as well as updates website to reflect current work.
Jason Czajkowski	Lead System Administrator Maintains computer systems and software. Makes sure all software is up to date.
Jonathan Smith	Information Analysis Manager Checks correctness of data and keeps project on track with scheduled deadlines.

Empire Unlimited's team structure is flexible, and assistance will be provided wherever it is most needed. Any group decisions that need to be made will be voted on, with the majority deciding. Any tie will be broken by the Team Leaders decision.

2.3 Development Environment

Our development environment will consist of the following:

Server

Web Server: Apache
Programming Language: PHP
Database: MySQL

Windows Machine:

- Operating System: Microsoft Windows Vista Enterprise (32 bit)
 - Service Pack 2
- Hardware
 - Processor: Intel Core 2 Duo, 2.93 GHz
 - Memory: 4.00 GB RAM
- Software Installed:
 - Microsoft Office 2007
 - Macromedia Dreamweaver, Fireworks
 - Internet Explorer, Mozilla Firefox, Google Chrome

Macintosh Machine:

- Operating System: Apple Mac OS X
 - Version 10.6.4
- Model: iMac5
- Processor: Intel Core2 Duo
 - Speed: 2 GHz
- Memory (RAM): 1.00 GB
- Dual Monitor Setup
- Software Installed:
 - Microsoft Office 2008 for Mac
 - Macromedia Dreamweaver, Fireworks, Flash, Freehand, Studio (2004 Versions)
 - Mozilla Firefox, Chrome

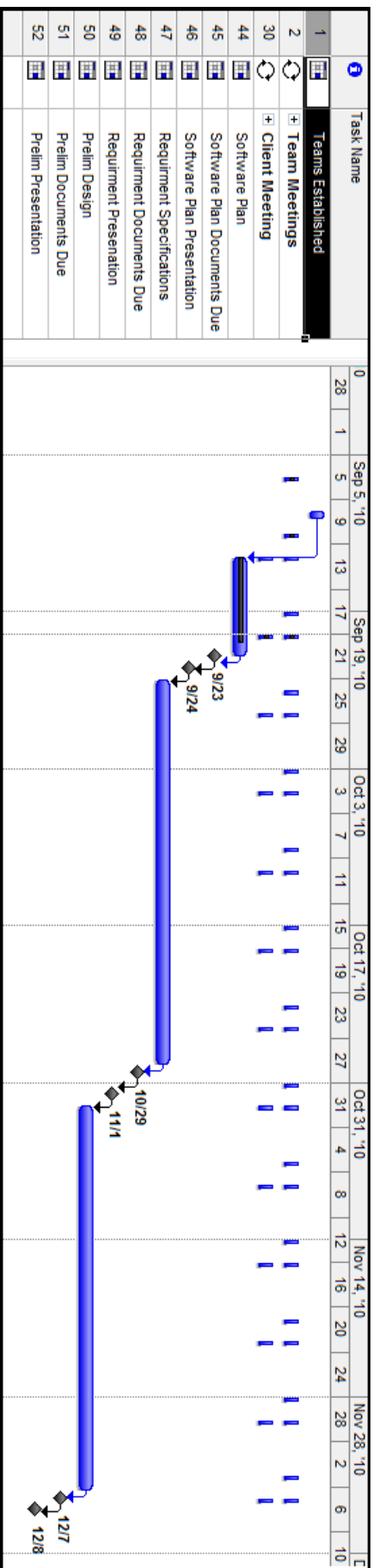
** Note: At the time of writing, this software and hardware list is not exhaustive. Furthermore versions are not exact and subject to change with software updates

2.4 Preliminary Development Schedule

The following timeline (Gantt Chart) will show the teams schedule for completing this project. This chart has the same functionality as a timeline, and will provide Empire Unlimited with a schedule to follow to ensure that all works is done, and done well.

Please refer to the next page for the timeline (Gantt Chart).

Timeline - Gantt Chart



The Gantt Chart displays Empire Unlimited's timeline for the semester, showing team meetings, client meetings, and other important dates.

2.5 Project Monitoring and Control Mechanisms

To maintain clear and precise goals for the project, our team will meet at least twice a week. Client meetings will also take place twice a week to keep the client updated as to our progress. Our team will maintain constant communication via email. Empire Unlimited will do most of our work together at our team meetings to insure that our work is done to the best of our ability, and to guide each other towards our goals.

2.6 Tools and Techniques to be Used

Empire Unlimited will be using programs and techniques learned in previous Computer Science classes to complete the project. The Software Engineering lab is where most of the work will be accomplished for the project. Programs that will be utilized in the project include, but are not limited to: Fireworks, Microsoft Office Suite, Dreamweaver, Firefox, Internet Explorer, WinZip, and Digital Dropbox.

2.7 Programming Languages and Resources

In order to ensure the successful completion of Smart Scheduling, Empire Unlimited will be using HTML, XHTML, PHP, CSS, JAVASCRIPT, MySQL, Microsoft Access, and possibly RUBY™. Other programming languages can be utilized as necessary.

2.8 Testing Requirements

In the acceptance test phase of Smart Scheduling, there will be complete and thorough testing of each component of the software. Both Empire Unlimited and the client, Dr. Robert Yoder will participate in the testing. The purpose of the testing is to verify that the project has all the functionality that is required. The results of the testing will be documented, and posted on the team web page, as well as sent to all the Empire Unlimited team members.

2.9 Supporting Documents Required

Supporting Documents will be completed and eventually posted on the Empire Unlimited team web site. They will be organized and easily accessible. The documents to be completed include:

1. System Definition and Project Plan by September 24, 2010
2. Software Requirement Specifications by October 28, 2010
3. Preliminary Design by December 8, 2010
4. Detailed Design by February 2011
5. Acceptance Test by April 2011

2.10 Manner of Demonstration and Delivery

To demonstrate the projects current progress, Microsoft PowerPoint will used. This provides a clear visual representation of the application, and where it is in relation to our overall goal. The PowerPoint will be updated to include the following important updates:

1. System Definition and Project Plan on September 25, 2010
2. Software Requirement Specifications on October 30, 2010
3. Preliminary Design on December 9, 2010
4. Detailed Design in February 2011
5. Acceptance Test in April 2011

2.11 Sources of Information

The sources of information used in this project include class lectures, meetings with our client Dr. Yoder, as well as previous Software Engineering teams projects.

Appendix A: Glossary of Terms

Ajax (Asynchronous JavaScript and XML) - A group of web development techniques used on the client-side to create interactive web applications.

Apache HTTP Server (Web Server) - Referred to as Apache, it is web server software notable for playing a key role in the initial growth of the World Wide Web.

Cascading Style Sheets (CSS) - A style sheet language used to describe the presentation semantics (the look and formatting) of a document written in a markup language.

Chrome – Internet browser designed by Google.

Conflict – When an activity can't be scheduled due to room use, weekend, and one resource being currently in use.

Constraint – When the client specifies that a certain resource must be used, or the project has to be done in a certain way, using certain specifications.

Database - An organized collection of data for one or more uses, typically in digital form.

Dreamweaver – A web development application.

Dropbox - A Web-based file hosting service operated by Dropbox, Inc. which uses cloud computing to enable users to store and share files and folders with others across the Internet using file synchronization.

Firefox – Internet browser designed by Mozilla.

Gantt Chart - A type of bar chart that illustrates a project schedule. Gantt charts illustrate the start and finish dates of the terminal elements and summary elements of a project.

HTML (HyperText Markup Language) - The predominant markup language for web pages. It is written in the form of HTML elements consisting of "tags" surrounded by angle brackets within the web page content. It is the building blocks of all basic websites.

HTTP (Hypertext Transfer Protocol) - a protocol used to transfer hypertext requests and information between servers and browsers.

Internet - A global system of interconnected computer networks that use the standard Internet Protocol Suite (TCP/IP) to serve billions of users worldwide. It is a *network of networks* that consists of millions of private, public, academic, business, and government networks, of local to global scope, that are linked by a broad array of electronic and optical networking technologies.

Internet Explorer (IE) – Internet browser designed by Microsoft.

JavaScript - An implementation of the ECMAScript language standard and is typically used to enable programmatic access to computational objects within a host environment.

MySQL - A relational database management system that runs as a server providing multi-user access to a number of databases.

PHP (PHP Hypertext Preprocessor) - A widely used, general-purpose “server side” scripting language that was originally designed for web development to produce dynamic web pages.

Ruby™ - A Proprietary, dynamic, reflective, general purpose object-oriented programming language that combines syntax inspired by Perl with Smalltalk-like features.

Spiral Model - A software development process combining which elements of both design and prototyping-in-stages, in an effort to combine advantages of top-down and bottom-up concepts.

Waterfall Model (Classic) - The Classic Waterfall Model is a sequential software development model in which development is seen as flowing steadily downwards (similar to a waterfall) through the phases of requirements analysis, design, implementation, testing, integration, and maintenance.

WinZip - A proprietary file archiver and compressor for Microsoft Windows,

XHTML (eXtensible Hypertext Markup Language) - A family of XML markup languages that mirror or extend versions of the widely used Hypertext Markup Language (HTML), the language in which web pages are written.

XML (Extensible Markup Language) - A set of rules for encoding documents in machine-readable form.

Appendix B: Team Résumés

Jonathan Smith
jb01smit@siena.edu
(518) 487-1938

Summary of Technical Skills:

- Knowledge of build-process of computers
- Programming Languages: VB Application, Java, C++, Lua, HTML, CSS, Javascript, familiar with assembly language
- Familiar Software: Macromedia Fireworks, Adobe Photoshop, Microsoft Word/Excel/Access/Powerpoint, Microsoft Visual Studio 2008

Related Technical Experience:

- **Software Engineering Team, Siena College, 2010**
Information Analysis Manager – Checked correctness and relativity of data input, as well as assisted in organization and layout of project schedule to efficiently meet deadlines and project goals.
- **Delorme, Yarmouth, ME, 2008**
Map technician – revision, improvement, and addition of new GPS cartographic data. Gained valuable experience using mapping software and improved data entry skills, as well as contributed towards a completed 2009/2010 GPS database.

Education Information:

- **Siena College, Loudonville, NY – May 2011**
B.S. In Computer Science; included with the CS major is acquiring knowledge of mathematics up to and including the calculus and discrete levels. Major GPA: 3.33
- **Camp CAEN (Computer-Aided Engineering Network), University of Michigan, 2004 & 2005**

Work Experience:

- **Fort Orange Press, Albany, NY, 2010**
Business Analyst/Office Technician – Office and Elections assistance, data entry, presentational setup, communication, work-flow analysis, database management. Marked knowledge of Microsoft Excel, and decent familiarity with Crystal Reports, Apogee software, and professional printing processes.
- **George's Market, Latham, NY, 2009-2010**
General labor – involved with organization and cleaning of facility in preparation for holiday season, as well as providing customer service and hands-on assistance when and where needed.
- **Quiznos, Price Chopper Plaza, Bethlehem, NY, 2006**
Sandwich artisan.
- **Glimmerglass Realty, Cooperstown, NY, 2003-2005, 2006**
Office assistant – general office chores, computer assistance, office set up and errands.

Community Service:

- **Reading for the Stars, Siena College 2010**
Worked with students to improve reading, writing, and educational skills. Volunteer tutor.
- **Albany Museum, 2006**
Volunteering – office assistance and organization.

Collin Lefeber

860-806-1604

cf24lefe@siena.edu

Present Address:

Siena College, SPOB 3058
515 Loudon Road
Loudonville, NY 12211

Permanent Address:

352 W River RD
Riverton, CT 06065

OBJECTIVE

A position designing, programming or maintaining websites or web applications.

EDUCATION

Siena College, Loudonville, NY
(In Progress) B.S. in Computer Science, May 2011
GPA: 3.31/4; President's List Fall 2009

COMPUTER SKILLS

Programming: Java, HTML, PHP, Coldfusion, javascript, jquery
Design: Photoshop, Illustrator, Inkscape

RELEVANT COURSEWORK

Intro to Programming, Data Structures, Assembly Language and Computer Architecture, Object Oriented Design and Programming, Data Base Management, Analysis of Algorithms, Web Application Development, Software Engineering

PROFESSIONAL EXPERIENCE

College Intern, Aetna, Hartford, CT, Summer 2010

- Used an Interwoven content management system updating content throughout Aetna's website.
- Developed a user customizable javascript world clock widget for Aetna's internal homepage.
- Experienced a corporate development process, attended Agile meetings for company projects.

Web Development Intern, Connecticut Distance Learning Consortium, Newington, CT, 2009 – Present

- Updated HTML and CSS with new styles and information.
- Wrote server and client side scripts to handle user information, submit forms etc.
- Developed scripts to interact with a SQL database.
- Tested various sites and provided constructive input on website layouts and scripts.
- Worked with an experienced team to accomplish tasks.

Graphic Designer, Datamasons Software, Worked Remotely, 2009

- Designed advertisements and banners for a trade show. This would include working with numerous versions and sizes of the ads, and using feedback from the company to move forward.
- Provided feedback on layout and images on their new website built by a contractor.

ADDITIONAL EXPERIENCE

Computer Lab Assistant, Siena College, Loudonville, NY, 2009

Ski Technician, Ski Sundown, New Hartford, CT, 2005-2008

Landscaper, Lost Acres Landscaping, East Hartland, CT, 2006-2008

Junior Ski Instructor, Ski Sundown, New Hartford, CT, 2003-2004

Thomas Mottola
td30mott@siena.edu
Cell: (631) 312-4624

OBJECTIVE: To obtain a position in the field of Computer Science and to gain further experience in this field.

EDUCATION: Siena College, Loudonville, NY
May 2011

Anticipated Graduation:

Major: Computer Science and Actuarial Science.

Current Cumulative GPA: 3.8 **Computer Science Major GPA:** 3.96

COMPUTER SKILLS:

Microsoft Word, Excel, PowerPoint, and Access. Proficient in Java, C, and VBA programming.

WORK EXPERIENCE:

Actuarial Intern, MetLife Valuation of Deferred Annuities(reporting), Bridgewater, NJ, Summer 2010

- Completed tasks such as reconciliation of reserves, account roll-forwards, surveys, etc.

Computer Science Tutor, Siena College, Loudonville, NY, School Year 09, 10.

- Held Open Weekly Tutoring Sessions for students at Siena College.

Life Guard, American Pools, Suffolk County, NY, Summer 07, 08, 09.

- Supervised public pools, including pool maintenance and ensuring safety.

Relevant Course Work: Probability for Statistics, Calculus I, Calculus II, Calculus III, Macro Economics, Micro Economics, Business Statistics, Operations Management, Managerial Accounting, Financial Accounting, Advanced Investments, Managerial Finance. Discrete Mathematics I, Discrete Mathematics II, Analysis of Algorithms

ACTIVITIES:

Student's In Free Enterprise (SIFE) 2009-Present

Junior Achievement Spring 2010

- Will be teaching 6 lesson plans to students in an urban area, enforcing the ideas of business and schooling.

Problem Solving Group Fall 2009-Present

- Met with other students and faculty to explore problems published in mathematics journals.

Association for Computing Machinery (ACM) 2008-Present

- Monthly meetings discussing computer maintenance, hardware, and other relevant areas.

American Guide Dog Foundation Training 2006-2009

Intramural Basketball/Soccer 2007-Present

Catholic League 2005-2007

- Volunteer work which consisted of visiting nursing homes in my area and spending time with the elderly.

Deans Team 2006-2007

- Consisted of helping out the deans, performing simple office work for them.

ACADEMIC HONORS:

Delta Epsilon Sigma Initiation(national scholastic honor society for students at universities with a Catholic tradition) *Spring 2010*

Franciscan Academic Scholarship recipient *Fall 2007-Present*

Siena College Dean's List *Fall 2007, Fall 2008, Spring 2009*

Siena College President's List *Spring 2008, Fall 2009*

National Honor Society *Grades 10-12*

BUSINESS KNOWLEGE/QUALIFICATIONS:

Society of Actuaries Exam P1 (Probability), passed January 2010

SOA Exam FM (Financial Mathematics), passed August 2010

Corporate Finance and Economics VEE completed

Brian D. Maxwell
(518) 461-9334
Bd21maxw@siena.edu

Objective: To obtain a position related to my Computer Science Degree.

Education:

Siena College, Loudonville, NY
Bachelor of Science, Computer Science, May 2011
Minor in Business

Honors / Awards:

- Presidential Scholarship, 2007 – Present
- William/Delia Harvey Endowment Scholarship, 2010 - Present

Experience:

Computer Science Intern, Federal Highway Administration, Albany NY 2010 – Present

- Provide technical support to office employees.
- Create and maintain web applications for the state.

Library Helpdesk Supervisor, Siena Information and Technology Services (I&TS) 2007 - Present

- Oversee Library I&TS consultants.
- Provide technical support to students, faculty, and staff.
- Set up and replace existing hardware on campus, as well as upgrade software.

Cashier, Stewarts, Greenville NY 2006 - 2009

- Provide customer service.
- Maintain a clean workplace.

Dish Washer, Yard Worker, Pine Lake Manor, Greenville NY 2003 – 2006

- Cleaned dishes.
- Maintained landscapes.
- Assist residents with moving residences.

Computer and Language Skills:

- C
- Java
- HTML
- Javascript
- PHP
- Visual Basic
- Microsoft Office

Activities and Community Service:

Member of ACM (Association for Computing Machinery), Siena College Loudonville, NY. 2009 – Present

Assist the homeless at the Capital City Rescue Mission, Albany, NY. 2005 - Present

Member of the Republican Club, Siena College, Loudonville, NY. 2009 - Present

Meghan Servello
Email: ml29serv@gmail.com
Cell: 845-548-8519

EDUCATION:

- Siena College, Loudonville, NY
 - o Bachelor of Science, Computer Science, May 2011
 - o Minors: Business, Multimedia
 - o GPA: overall – 3.25/4.0
 - o Study Abroad – Wollongong, Australia; Fall 2009

RELATED EXPERIENCE:

Organizational Information Manager, Software Engineering, Siena College, September 2010 – present

- o Keeps track of all documents pertaining to project and client and team meeting notes
- Technical Writing Intern, Mimeo.com, New York, NY; Summer 2010
- o Rewrite, reorganized, and reformatted entire help article knowledgebase
 - o Wrote new articles to reflect website updates
 - o Participated in meetings between the Product and Learning & Development teams

Student Assistant to the Director of Instruction Technology / Black Board Help Desk Consultant, Siena College, Loudonville, NY; Fall 2008, Spring 2009, Spring 2010

- o Created how-to documents to help assist students and faculty
- o Developed frequently asked question and answer knowledge base

IT intern, Paragon Bank Headquarters, Montvale, NJ; Winter 2009 - 2010

- o Updated Excel database with current system information

OTHER EXPERIENCE:

Swim Coach, Nyack Field Club, Nyack, NY; Summer 2007 - Summer 2008

- o Coached children age 5 – 15 on the fundamentals of competitive swimming

Swim Lesson Instructor, Nyack Field Club, Nyack, NY; Summer 2005 – Summer 2008

- o Taught basic stroke technique to children ages 3 – 10

Lifeguard, Nyack Field Club, Nyack, NY; Summer 2005 – Summer 2008

Tutor, Private Residence, Pearl River, NY; May 2007 – July 2009

Teaching Assistant, Franklin Avenue Elementary School, Pearl River, NY; September 2006 - June 2007

- o Oversaw daily classroom activities, gave individual attention to struggling students, prepared and executed math lesson

EXTRA-CURRICULAR ACTIVITIES:

Women in Computer Science Club (ACM-W), Siena College, Loudonville, NY; 2007 – present

- o President – Senior year
- o Vice President – Junior year
- o Treasurer – Sophomore year

Siena Swimming and Diving Team – Division 1, Sept. 2007 – present

- o MAAC All Academic Team 2008 – 2009 season

SAAC (Student Athlete Advisory Committee) Siena College, Loudonville, NY; 2008–2009 season

- o Siena College Representative at the Spring 2008 MAAC SAAC Conference

Habitat for Humanity, Siena College, Loudonville, NY; 2007 – 2009

- o Help build the Collegiate Challenge houses over Spring Breaks in North Carolina

Gaelic Society, Siena College, Loudonville, NY; Fall 2007 – Spring 2009

SKILLS/PROFESSIONAL DEVELOPMENT:

15th Annual CCSC Northeastern Conference; May 2010, Hartford, Ct

Computer: Microsoft Word, Excel, Power Point; Blackboard

Programming Languages: Java, C, Visual Basics

Jason Czajkowski
(315) 250-3136
jr03czaj@siena.edu

Education

B.S. Computer Science, 2011
Siena College, Latham, New York
Graduated with Honors

Honors Thesis in Machine Learning
Software Engineering
Web Design
Database Management
Assembly Language and Computer Architecture
Object-Oriented Design and Programming

Experience

1997 - Present Web Developer

Siena College, Latham, NY

Worked with XHTML, CSS, PHP, ASP, Adobe Flash and a content management system to create a variety of web pages and applications for the Office of Academic Affairs.

June - September, 2010 iPhone and Droid Developer

Dr. Allan Weatherwax, Latham, NY

Worked with a team to develop an iPhone application and begin work on a Droid application to display the scientific research of Dr. Weatherwax. The application pulls images selected by a script to be of good quality and a designated movie from a server to be displayed.

June '08 - August '08 Technician

Clear Data Solutions LLC, Waddington, NY

Worked to maintain servers, networks, and computers for various businesses.

Other Experience

September '07 - present Cashier

Hannaford, Massena, NY

Technical

- *Languages:* C++, Java, C, SQL, PHP, HTML, CSS, Objective-C
- *Applications:* MS Visual Studio, Eclipse, Xcode
- *Operating Systems:* Windows, Linux, OS X
- *Database Systems:* SQL Server, MySQL, Oracle