

PRISM

PROJECT RECORDING INFORMATION SYSTEM MANAGEMENT

SOFTWARE PLAN

REQUESTED BY:

**DR. MEG FRYLING
PROFESSOR OF COMPUTER SCIENCE
SIENA COLLEGE
LOUDONVILLE, NY**

PREPARED BY:

**QUANTUM TECHNOLOGIES
SHANNON PFOHL: TEAM LEADER
PAUL CHERRIER: WEB MASTER
RYAN EGAN: INFORMATION SPECIALIST
JORDAN HOLOBOSKI: DATABASE ADMINISTRATOR
KATHLEEN O'HARA: SYSTEM ADMINISTRATOR/ DEVELOPER
JULIAN THOMAS: DEVELOPMENT DIRECTOR**

SEPTEMBER 23, 2013

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SYSTEM DEFINITION

1.1 Problem Definition

The client, Dr. Fryling, has various teams and projects currently within her business. Dr. Fryling is looking for an application that can keep track of the hours employees complete for billing purposes. Dr. Fryling would also like the hours to be tracked according to which project the employee completed work on and more specifically, what part of the project the employee worked on. Also, Dr. Fryling needs an application that allows the team leaders and supervisors to evaluate the co-workers on their efforts on these projects

1.2 System Justification

Dr. Fryling is seeking an easier way for employees to keep track of the work performed on projects. The current system requires an excessive amount of paper work. Creating the online system, PRISM, would remove the need for any paperwork at all. Also, the projects tend to take several months and occasionally the paperwork gets lost. Creating PRISM will reduce the chances of lost information. Furthermore, PRISM will make the process for recording information easier for employees, team leaders, and supervisors, by keeping track of the hours, which will encourage the employees to keep the hours up to date and accurate, as well as evaluations.

1.3 Goals for Project and System

The main goal is to create a system that is easy and convenient for employees to keep track of the hours spent on a specific project. The system is to have a place for the team leaders to create evaluations. The system is to have a hierarchy that allows team leaders and administrators, access to seeing all input. Also the system gives employees below team leaders access to view only the hours that that particular employee has contributed to the projects as well as other team's total hours on a project.

1.4 Constraints to the System and the Project

PRISM will be a web-based application where Quantum Technologies will allocate a secure method for entry and information retrieval. PRISM will be compatible with the most up to date releases of major browsers. Supervisors have the capability of reviewing all employee recorded times as well as all evaluations created. Team leaders are eligible to complete evaluations for team members and can review the leader's team member's hours recorded into the system.

1.5 Functions to Be Provided (Hardware, Software, & People)

- Time spent on the project by a user
- Evaluations of the user's teammates on a project
- Review of the time sheets and evaluations by supervisors and team leaders
- Total time spent on a project according to team

1.6 User Characteristics

The users of PRISM will include employees working on projects throughout the company as well as their team leaders and supervisors. The system will obtain the following characteristics:

- Supervisors will have access to all information contained within PRISM and are eligible to write evaluations for all employees.
- Team leaders have access to the hours recorded by the team. Evaluations on the team members can be completed by team member's leader(s).
- Team members have access to personal hours recorded as well as other teams' total hours spent on a project.

1.7.1 Development Environment

Computer #1 – Mac

- iMac
- Model Identifier: 12,1
- Mac OS X Lion 10.7.5 (11G3b)
- 21.4 inch (1920 x 1080 display)
- AMD Radeon HD 6750M 512 MB Graphics
- Intel Core i5 (2.5GHz)
- 4 GB Memory
- 500 GB SATA Disk

Computer #2 – PC

- OptiPlex 760
- Windows Vista Enterprise
- Dual Dell Screens
 - Dell 2208WFP (1680 x 1050 display)
 - Dell 1908FP (1280 x 1024 display)
- Intel Core Duo CPU (2.93 GHz)
- 4 GB Memory
- 300 GB SATA Disk

Server

- Hostname: oraserv.cs.siena.edu
- CentOS 5.2 (final)
- Kernel: 2.6.18-92.el5
- Intel Xeon 2.66 GHz CPU
- 8 GB of Memory
- Java SE Runtime Environment (build 1.6.0 10-rc-b28)
- GCC Version 4.1.2 20071124 (Red Hat 4.1.2-42)
- Python 2.4.3

1.7.2 Operating Environment

Quantum Technologies will be using a web based application located on Siena's database server, oraserve. The web based application will consist of an Oracle database with an Apache Web server.

1.7.3 Maintenance

A bulk of the maintenance will be done in the security of the Software Engineering lab with the appropriate applications. These applications include but are not limited to programs such as Adobe Photoshop, Adobe Dreamweaver and Notepad++ as well as internet browsers such as Google Chrome, Internet Explorer, Apple Safari and Mozilla Firefox.

1.8 Solution Strategy

Quantum Technologies will be following a specific solution strategy to complete the project in a timely fashion. This will consist of the following steps to ensure the product that is delivered is bug free and meets Dr. Fryling's standards.

- **Software Plan:** The Software Plan will define the problem presented to us by our client, Dr. Fryling. The Software Plan will go through the goals and expectations of Dr. Fryling while only touching on the method of solving Dr. Fryling's problem.
- **Requirement Specifications:** The Requirement Specification will consist of a list with specific details related to PRISM. Dr. Fryling will send the information in the form of a detailed list.
- **Preliminary Design:** The Preliminary Design will serve as a rough draft solution to the problem. The Preliminary Design will be based on the Requirement Specifications document and will serve as a foothold for the final product.
- **Detailed Design:** After Dr. Fryling reviews the Preliminary Design and provides Quantum Technologies with feedback, Quantum Technologies will then build on what the team has done and create a more detailed model of the application.
- **Acceptance Test:** The Acceptance Test will serve as a test for the final product. The test is a demonstration of the final system that was developed based on feedback from previous steps and adaptations along the way.

1.9 Priorities and System Features

Quantum Technologies' goal is to present the client with a system that enables employees in upper management to view the time logs of employees they are unable to see the logs of people who are superiors.

Security is a high priority for PRISM. The system must enable high ranking employees to successfully track and manage the hours of the employees that managers and supervisors lead. The employees, on the other hand, will not have the ability to view the logs of employees above them, or on the same level. The hierarchy system is a key feature of our application.

1.10 System Acceptance Criteria

PRISM will contain the following features:

- Supervisors will be able to:
 - Evaluate all employees
 - Review all recorded hours by all employees
 - Review all evaluations completed
- Team leaders will be able to:
 - Review hours spent on a project by the leader's team(s)
 - Complete evaluations on the leader's team members
- Employees will be able to:
 - View total hours spent on another teams project
 - View The individual's hours recorded
 - Record hours worked on the project

PROJECT PLAN

2.1 Project Management & Development Model

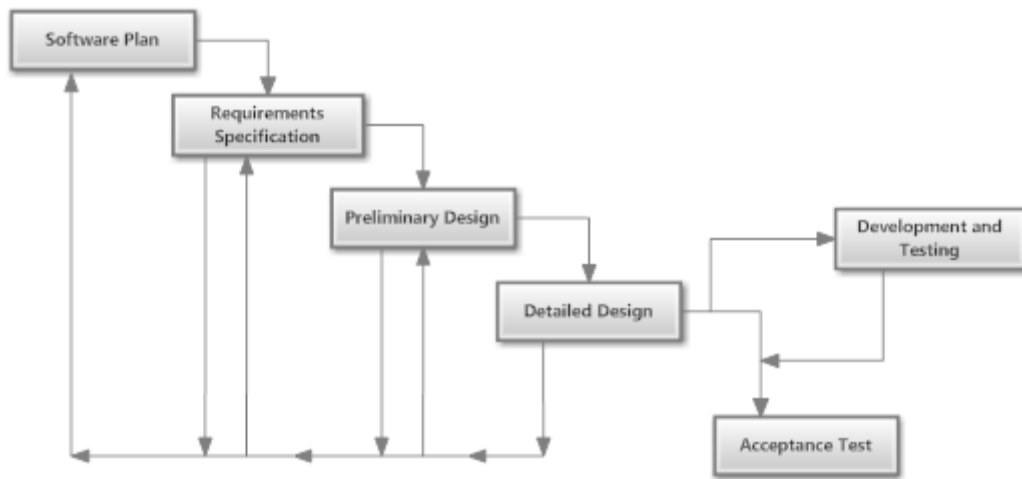


Figure 2.1: Modified diagram of the classic Waterfall methodology

Software Plan

Quantum Technologies will define Dr. Fryling's problem and create a project plan.

Requirements Specification

Quantum Technologies will further define Dr. Fryling's problem to meet the specifications and requirements.

Preliminary Design

Quantum Technologies will create a modular design of the system after updating Dr. Fryling's requirements.

Detailed Design

The system will be created from the preliminary design which will include finalized screen designs.

Development and Testing

The system will continuously be ran and adjustments will be made if a problem is found.

Acceptance Test

The completed product of the system will be presented.

2.2 Organizational Structure

Shannon Pfohl: Team Leader

The team leader is responsible for organizing both client and team meetings. The team leader is the main team contact for the supervisor, Dr. Lederman. The team leader is responsible in making sure the team members are handing in any deliverables on-time and makes sure the deliverables are of good quality. The team leader is also responsible for keeping track of attendance at all class periods and all meetings.

Paul Cherrier: Web Master

The web master is responsible for the creation and maintenance of the team website. Duties include but are not limited to, updating relevant information, uploading important documents, and keeping the time line up to date.

Ryan Egan: Information Specialist

The information specialist collects data, compiles information, and provides information gathered to the team and client. The information specialist also has the ability to analyze data and will provide the best solution through many resources.

Jordan Holoboski: Database Administrator

The Database Administrator is responsible for the design and maintenance of the database created for PRISM. Entity-relationship diagrams and relationship schemas of this database will also be made and documented by the Database Administrator.

Kathleen O'Hara: System Administrator/Developer

The System Administrator holds the responsibility of adding and maintaining any necessary software and hardware pertaining to the system. An additional responsibility of the system administrator is documenting meeting notes and sharing the documents with the team supervisor, Dr. Timothy Lederman, Dr. Meg Fryling, and the team Quantum Technologies. The developer has the responsibilities of creating and updating the team website, documentations, and PRISM.

Julian Thomas: Development Director

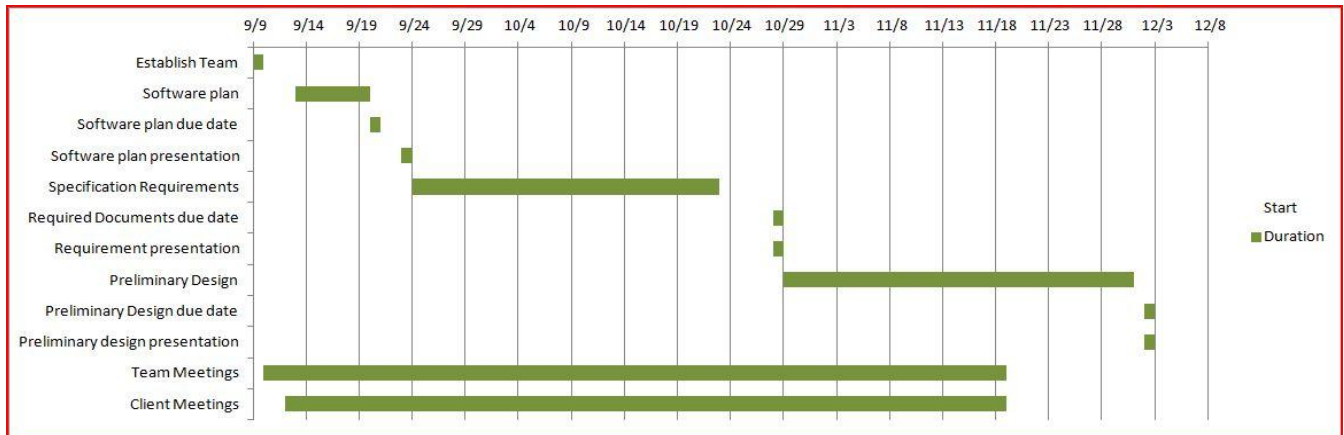
The role of the development director is to design and implement a plan that will create the system in an efficient and timely manner. The job requires overseeing the development process of the system and providing ways to make sure the development process is running efficiently.

2.3 Preliminary Staffing

Quantum Technologies will work together, with the client Dr. Fryling, and with faculty members Dr. Lederman, and Dr. Lim. Each of the six members of Quantum Technologies will use the materials that are available in the Software Engineering Lab (Roger Bacon 348). Quantum Technologies will be using the information of which was learned from previous classes and experiences.

2.4 Development Schedule Timeline

	Task	Duration (days)	Start	Finish
1	Establish Team	1	9/9	9/9
2	Software Plan	7	9/13	9/20
3	Software Plan Due Date	1	9/20	9/20
4	Software Plan Presentation	1	9/23	9/23
5	Requirements Specification	29	9/24	10/28
6	Required Documents Due Date	1	10/28	10/28
7	Requirement Presentation	1	10/28	10/28
8	Preliminary Design	33	10/29	12/2
9	Preliminary Design Due Date	1	12/2	12/2
10	Preliminary Design Presentation	1	12/2	12/2
11	Team Meetings	70	9/10	11/28
12	Client Meetings	68	9/12	12/2



2.5 Project Monitoring Mechanism

Quantum Technologies will have team meetings at least twice a week to ensure the design and system are being developed to the client’s specifications. Quantum Technologies communicates through email with the team and the client to keep all personnel involved informed on meetings and project times. Regular meetings will be held with the client to notify the progression of the project.

2.6 Tools and Techniques to Be Used

To create PRISM, Quantum Technologies will use a culmination of previous experience and knowledge. Relevant courses taken include Object-Oriented Design and Programming, Analysis of Algorithms, Data Structures, Web Application Development, Database Management, Communication and Networks, and Robotics. Members of Quantum will also use the experience gained from internships through successful companies.

Specific applications that will be used are: Google Chrome, Mozilla Firefox, Safari, Internet Explorer, Notepad++, SQL Developer, and Eclipse.

2.7 Programming Languages

Quantum Technologies will be using the following programming languages in order to develop PRISM: HTML, CSS, PHP, SQL, JavaScript and Java. More languages may be considered as the project enters the preliminary design phase.

2.8 Testing Requirements

Quantum Technologies will be thoroughly testing all progress made during development in order to ensure that errors are at a minimum. As development continues, detailed test cases will be made and the results of the test cases will be documented and discussed with the client, Dr Fryling. The acceptance test will be the final test conducted by Quantum Technologies and ensure that the application fully meets the client's needs and requirements.

2.9 Supporting Documents

Five documents will be written as the project develops. The documents will be made available to the client as soon as they are completed in order to provide to the client with an idea of the progress being made on the project. These documents are as follows:

- Software Plan
- Requirements Specification
- Preliminary Design
- Detailed Design
- Acceptance Test

2.10 Time of Delivery and Presentation

Throughout the fall semester the supporting documents will be delivered and presented on the following dates:

Event	Date of Delivery	Date of Presentation
Software Plan	Friday September 20, 2013	Monday September 23, 2013
Requirements Specifications	Friday October 25, 2013	Monday October 28, 2013
Preliminary Design	Monday December 2, 2013	Monday December 2, 2013

2.11 Sources of Information

The primary source of information necessary for PRISM will come from the client, Dr. Fryling. The supervisor, Dr. Lederman, will provide extra information and help in class, while the supervisor, Dr. Lim, will give us instructions through labs.

APPENDICES

Appendix A: Team Resumes

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SHANNON M. PFOHL

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 Niskayuna, NY 12309
 518.368.2235
 sm13pfoh@siena.edu

EDUCATION**Siena College**, Loudonville, NY

B.S Computer Science; Minor: Mathematics

Expected May 2014

- GPA: 3.24; Dean's List
- Relevant Coursework:

Object-Oriented Design and Programming	Communications and Networks	Assembly Languages and Computer Architecture
Intro to Programming I & II	Discrete Structures I & II	Database Management
Analysis of Algorithms	Data Structures	

- Software: Python, BlueJ, Microsoft Excel

Software Engineering: Quantum Technologies; Team Leader; PRISM

Fall 2013

RELEVANT EXPERIENCE**Credit Suisse**, New York, NY

IT Summer Analyst

Summer 2013

- Program and Testing Group for Asset Management
- Completed ITIL V3 Training
- Research Project on Basel III implementation; Presented to Vice Presidents and Directors

INTERCOLLEGIATE ATHLETICS/ COLLEGE ACTIVITIES**Siena College's Division I NCAA Women's Lacrosse** 2010-Present

- Athletic Scholar
- All-MAAC Second Team, 2012
- MAAC All-Academic Team, 2012, 2013
- 25+ hours per week including practice, team meetings, and conditioning
- Student Athletic Advisory Committee Representative

Women In Computing Club

2011-Present

- Fundraising Chair
- Participated in Grace Hopper Celebration of Women in Computing 2012, Baltimore, MD Grace Hopper Celebration of Women in Computing 2013, Scholarship Recipient, Minneapolis, MN

OTHER EXPERIENCE**Summer Child Care Assistant**, Guilderland, NY

Summer 2012

Hostess, Ruby Tuesday's, Latham, NY

Summer 2011

Sales Associate, Victoria's Secret, Colonie, NY

2010

COMMUNITY INVOLVEMENT

- Double H Ranch, 2010-13
- Niskayuna Youth Lacrosse Club Coach & Referee, 2007-2012

Paul Cherrier

111 Woodbury Hill Rd, Wynantskill, NY 12198

pt18cher@siena.edu (518) 337 - 7055

Objective

My goal at this point in my college career is to acquire an position in the field of Computer Science or IT. I would like to gain experience in real world IT and programming fields in order to excel in my desired field of employment.

Education

Siena College

September 2010 - Expected graduation May 2014

- Pursuing a Bachelor's degree in Computer Science with a minor in Business Management.
- Able to write in Java, Python and HTML along with PHP, CSS and JavaScript.
- Have taken various classes aimed at group projects and team building exercises.

Experience

New York Independent Systems Operator (NYISO) - Intern

May 2013 - August 2013

- Interned during the Summer 2013 season in the Enterprise Architecture division of the IT department.
- Responsible for conducting a Proof-of-Concept showing that cloud computing is a viable and efficient method for the creation and migration of virtual machines.
- Gained experience in a Linux environment as well as experience in a professional environment and time management skills.

Albany Criminal Analysis Center - Intern

February 2013 - Present

- Intern at the Albany South Street Police Station in the Criminal Analysis Center.
- Assisting in the construction of a website and phone application during the Spring and Fall 2013 semesters.
- Responsible for various programming tasks using HTML, CSS, PHP and JavaScript.

Tech Electric Incorporated - Electricians Assistant

June 2009 - December 2012

- Responsible for various jobs assigned to me by my superiors.
- Includes everything from running conduit to installing outlets and pulling wire.

Dante's Pizzeria - Manager

June 2004 - Present

- Supervise up to three people at a time.

Skills

- Programming in Java (4 years) and Python (2 years).
- Web Development in HTML (2 years), CSS (2 years), PHP (2 years) and JavaScript (2 years).
- Competent in Microsoft Word, Excel and PowerPoint as well as Linux, Ubuntu, Mac OS, Microsoft Windows.
- Additional relevant applications: 'Joomla!', OpenStack, BlueJ, Eclipse, Notepad++ and SmartDraw.

Ryan Edward Egan

Phone: 518-461-1707

Email: Re31Egan@siena.edu

Education

Siena College (Loudonville, New York) expected to graduate May 2014

Double Major: Actuarial Science /Computer Science

GPA: 3.75 (4.0 scale)

Actuarial Exams

Passed Exam 1/P (July 2012)

Work Experience

Actuarial Pricing Intern (Metropolitan Life Insurance Company, Warwick, RI) (Summer 2013)

- Helped determine the price for home and auto insurance for various states
- Used Excel and Studio Query to compile and analyze data to help the company

School of Science Office Assistant (Siena, College, Loudonville, New York) (2010-Present)

- Work with the Dean and Assistant Deans of the School of Science
- Perform various administrative tasks using Microsoft Excel and Word
- Assist faculty and staff with any work-related tasks they may need completed

Student-Athlete Tutor (Siena College, Loudonville, New York) (2010-Present)

- Provide academic support for other student-athletes
- Available to tutor Actuarial Science related courses and various Computer Science courses

Intercollegiate Athletics

Siena College, Division I Men's Cross Country team (2010-Present)

- Captain of the team (2013 – Present)
- Received full athletic scholarship
- Spend 20-30 hours on team related activities a week
- 2011 and 2012 MAAC All-Academic Team
- 2011 MAAC Student Athlete of the Week
- 2012 Siena College Leo Dufort's Student Athlete Award

Activities

Service activities:

- Talked to elementary students in Albany about the benefits of exercise and proper ways to exercise
- Provided support to the Shooting Stars league, a basketball league for students with disabilities
- Volunteered for local road races to ensure they run smoothly

Independent study:

- Create a model to predict basketball wins for a group of five players
- Program the simulation of the model to prove/disprove the hypothesis

Skills

Proficient in: Java, Excel, Word, PowerPoint, SPSS, Bloomberg terminal

Jordan Holoboski

Email: jm26holo@siena.edu

Phone: 518-669-6275

Education

Siena College, Loudonville, NY

2011 -**2014**

B.S. in Computer Science, Minor in Mathematics

Overall GPA: 3.87

Computer Science GPA: 4.0

Relevant Coursework

Data Structures, Robotics, Database, Object-Oriented Programming, Assembly Language, Discrete Structures I, Discrete Structures II (Computational Theory), Foundations of Mathematics, Analysis of Algorithms, Web Application and Development, Android Application Development, Software Engineering I

Programming Languages

Proficient in Java, JavaScript, Python, C, MIPS, SQL, VBA, HTML, XML, CSS

Work Experience**Data Programmer**, Treo Solutions**2013**

- Assisted in the development and modifying of various databases in Microsoft SQL Server.
- Wrote python programs and Microsoft Excel macros for other database maintenance projects.

Student Researcher, Siena College**2013**

- Researched the computational complexity of a new type of Hamiltonian path problem.
- Designed and implemented an optimized backtracking algorithm for finding these Hamiltonian paths.
- Presented research results at the Summer Research Symposium at Siena College.

Student Researcher, Siena College Institute of Artificial Intelligence**2012**

- Worked on SCAPE, Siena College's Automated Predictor of Extremism.
- Created software to search through documents and news articles for relevant data in predicting future terrorist events.
- Presented research at Union College and Siena College.

ITS Consultant, Siena College**2012 – 2013**

- Worked on a daily basis on resolving student and faculty's computer issues.
- Communicated technical ideas to non-technical computer users.

Project Experience**Robot Assistant****2012**

- Programmed minimax robot to do calculations through AR markers and find the weather via speech input.
- Worked with a team of faculty and students to plan, design, and implement project.
- Implemented on Linux and Robotics operating systems using the Python programming language.

Ticket to Ride: Legendary Asia**2013**

- Programmed a Java applet for the board game Ticket to Ride: Legendary Asia.
- Took the role as team leader and led a team of students to get a working version of the game, along with proper UML documentation, within a month's time.

MTG Database**2013**

- Created a database for Magic: The Gathering® cards.
- Applied E/R diagrams, relational schema, normalization, SQL, and query processing in order to make the project a success.

Education

Siena College, Loudonville, NY **Spring 2014**

- Major: B.S. Computer Science, GPA: 3.37/4.0
- Minor: Mathematics, GPA: 3.31/4.0
- Expected Graduation Date: May 2014
- Recipient, George T. Maloney '54 Scholarship

Related Courses: Data Structures, Object-Oriented Design and Programming, Assembly Language and Computer Architecture, Analysis of Algorithms, Web Application Development, Database Management, Software Engineering, Discrete Structures

Hudson Valley Community College, Troy, NY **Fall 2012**

- Degree: Associates in Science

Experience

Supervisor, **Information Technology Services, Siena College** **May 2012 - Present**

- Train and lead workers to meet and exceed the expectations of the job requirements
- Help students, faculty and staff to resolve computer, network, software, and technical issues
- Reimage and install software on computers throughout campus
- Implement an inventory check of equipment throughout campus
- Diagnose technical issues in classrooms, labs and offices

College to Corporate Intern- Developer, **Vanguard, Charlotte, NC** **May 2013-August 2013**

- Experienced in a fast paced Agile Development Environment including Scrum
- Collaborate with a team to generate and create a PDF of the Quarterly Progress Report for eligible clients
- Create and execute JUnits for testing purposes and administer In-Sprint Regression Testing
- Construct an efficient way of communicating with business for requesting content

Mathematics Teacher, **JEI Learning Center, Loudonville, NY** **May 2012 – May 2013**

- Implemented exercises and activities in the classroom with students from the age of 4 to the age of 14
- Assisted and supported students to help improve their academic performance
- Analyzed and maintained records and documentation of students academic progress

Tutor, East Greenbush, NY **September 2011 –December 2012**

- Individual tutoring for high school mathematics

Computer Skills

- Software Experience: JES, BlueJ, Eclipse, Microsoft Suite: Word, Excel, PowerPoint, Outlook, MARS, SQL Developer, RAD, Spring Tool Suite, Quality Center, Notepad++
- Programming Languages: Java, Assembly Language (MIPS), Python, SQL, XML, HTML, Native SQL, JavaScript, CSS

Leadership/Community Service/Projects

United Way- Boys & Girls Club, Classroom Central **June 2013**

Women in Computing Club **Fall 2012 – Present**

- President(Fall 2013 – Spring 2014), Treasurer(Fall 2012 – Spring 2013)

Women Leading the Way **January 2013**

- Nominated to attend this event which provides women with the resources needed to develop skills and improve communities

Reformatting Siena College ITS Website **Summer 2012**

- Made sure all information was valid and up to date
- Came up with ideas and designs for better efficiency and navigation of the website

Tutorial for Blackboard 9.1: Develop sufficient documents to guide faculty in Blackboard **Summer 2012**

Present Address
Address

515 Loudon Road
Loudonville, NY 12211
12206

jr29thom@siena.edu
(518)703-9872

Permanent

28 McArdle Ave
Albany, NY

Education**Siena College, Loudonville, New York**

Bachelor of Science in Computer Science, Anticipated Graduation May 2014

Technical Summary & Skills

- JavaScript Programming, Java Language, Word Press and MS Office Software
- Comfortable leading group discussions
- Effective communication and facilitation skills

Research Experience**Research Assistant**

Computer Science and Physics Departments, Siena College

Summer 2013 to Present
Loudonville, New York

- Operated STK software to monitor satellite orbit
- Programmed STK to respond to potential scenarios to prevent future malfunctions
- Collaborated with other facilities and researchers by sharing data

Summer Scholar

Computer Science Department, Siena College

Summer 2012 & 2013
Loudonville, New York

- Designed creative labs for CS 110 Introduction to Computer Science to increase number of computer science majors at Siena College
- Utilized robots in labs to bring a hands-on component to the classroom
- Presented to faculty on peer reviewed journals
- Mentored summer camp youth at robotics summer camp by teaching how to build robots.
- Designed webpage using Word Press to facilitate dialogue between faculty and students on robotics.

Additional Experience**Office Assistant of Public Safety**

Public Safety Department, Siena College

January 2013- Present
Loudonville, New York

- Create evacuation plans for three dormitories, which houses up to 940 students.
- Assist families and students on move-in day.
- Maintain orderly work environment.

Peer Mentor

Higher Education Opportunity Program, Siena College

Fall 2012
Loudonville, New York

- Helped freshman adjust to college life
- Counseled freshman on social or academic needs
- Gave advice on how to improve their college life

Presentations

- Presenter Robotics Panel, SUNY Albany Spring 2013
- Panelist HEOP Admission panel, Siena College Fall 2012
- Presenter Robotics Show, Siena College Fall 2012

Appendix B

GLOSSARY OF TERMS

Adobe Dreamweaver: Tool used for web application development

Adobe Photoshop: Graphic editing application

Apache HTTP Server: Web server application

Apple Safari: Web browser designed by Apple

Classic Waterfall Model: Software development process where each phase flows down into the next. This process makes it difficult to go back up the process

CSS: Cascading Style Sheets, language used for stylizing web pages

Database: Organizes data, typically through a computer, so that the data is easily accessible

Eclipse: Programming environment developed by the Eclipse Foundation

Gantt Chart: Bar chart typically used to project scheduling

Google Chrome: Web browser designed by Google

HTML: Hypertext Markup Language, main language for creating web pages

Internet Explorer: Web browser designed by Microsoft

Java: Object-oriented programming language developed by and maintained by the Oracle Corporation

JavaScript: Computer programming language used primarily in web browsers for based client-side scripts

Mozilla Firefox: Web browser designed by Mozilla Foundation and the Mozilla Corporation

Notepad++: Text editor specializing in syntactic highlighting of various programming languages

PHP: PHP: Hypertext Preprocessor, a programming language used for developing client-side scripts for web browsers

PRISM: Project Recording Information System Management

Quantum Technologies: Team name

SQL: Structured Query Language, language used to develop databases

SQL Developer: Program used to create and modify database

User Interface: Space where a user can interact with a computer through inputs and outputs