

# Zachary L. Witter

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## Education

### **Siena College**

**2010-2014**

*B.S. in Computer Science*

-Overall GPA: 3.21; Major GPA: 3.73

-Undergraduate Coursework: Robotics, Algorithms, Database, Android Application Development

## Languages and Technologies

-Proficiently skilled in Java, and JavaFX, moderately skilled in Python

-Capable of productively operating BlueJ, Eclipse, and NetBeans

## Employment

### **Software Intern**

**2013-present**

*X-Ray Optical Systems*

Active Developer in the creation of automated systems for scientific instruments

-Developed a user guided automation for testing Vacuum tubes used in Scientific Instruments

-Research on uses and implementations for new JavaFX 2.2 JDK

-Actively developing IOP testing software for newly released "HD Mobile" Product

### **Student Researcher**

**2012**

*Siena College Institute of Artificial Intelligence*

Partaking in the creation of Siena's Automatic Wikipedia Update System (SAWUS)

-Constructed a Knowledge Base Acceleration program built to speed up the process of multi-user upkeep for informational resource websites

-Designed the algorithm that isolates the most relevant key words for a given entity

-Wrote the comparison logic that determined a document's relativity to an entity

-Submitted and presented at the Text Retrieval Conference (TREC), hosted by the National Institute of Standard Technologies (NIST)

-Displaying the responsibility necessary to complete both independent and team goals in an efficient and timely manner

## Project Experience

### **Vacuum Tube Tester - Java, JavaFX**

**2013**

-Designed and implemented a full application for testing Vacuum Tubes

-Produced a graphical user interface to guide a user through an automated test on Vacuum tubes used in scientific products.

### **Ticket To Ride Simulator - Java**

-Java based team organization project that simulated the board game "Ticket to Ride"

**2013**

### **Piano Bot - Python, Linux, Robotics Operating System**

**2012**

-Exhibited ability to communicate cooperatively with team members in a collaborative group project

-Programmed a mini-maxwell robot to play on a piano the songs presented to it by an audience

-Focused on the communication between nodes and timed execution of movements

## Extra-Curricular Activities

-Skilled in automotive restoration of the 1979 Pontiac Trans Am and 1978 Z28 Camaro

-Earned a first degree black belt by practicing Tae Kwon Do at Scalise Martial Arts