**Andrew Ketcham, CPA**
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## EDUCATION

**University at Buffalo, The State University of New York**
Bachelor of Science in Computer Engineering                                          **Expected December 2018**
GPA: 3.99/4.0
Bachelor of Science in Accounting                                                                              May 2014
GPA: 3.98/4.0
Master of Science in Accounting                                                                                May 2015
GPA: 4.0/4.0

## ENGINEERING PROJECT EXPERIENCE

**University at Buffalo Nanosatellite Laboratory**
**GLADOS Flight Software (C++),** Current
**Objective:** To design and implement programs to successfully send a nanosatellite to space, using C++ and CLion IDE
- Design function to receive and queue image command requests to the satellite through use of vectors, mutexes, and multithreading (POSIX threads)
- Design and implement C++ program to read the current and voltage from any current sensor or battery source, respectively, in the system, and convert current to necessary units to be used by other devices
- Gain understanding of shared code base through use of Github, including pushing, pulling, and committing project changes through use of branches
- Improve project management skills through use of shared documents which include subsystem updates and outstanding items

**University at Buffalo**
**Clue Game (Java),** Fall 2016
**Objective:** To design and implement a program that imitates the board game "Clue" in Java using Eclipse IDE
- Implemented a board consisting of the various components of the game (players, hallways, doorways, rooms, etc.) using knowledge of Java abstract data types and class-subclass structure
- Designed a recursive method to calculate and return to the player a list of possible moves and pathways given a specific dice roll
- Developed pair programming skills while working with other team members

## WORK EXPERIENCE

**Pricewaterhouse Coopers, LLP**, Buffalo, NY
**Risk Assurance Intern**, June 2014 – August 2014
**Risk Assurance Associate**, July 2015 – June 2016
- Identified and corrected gaps in walkthrough documentation that had previously led to deficient testing
- Led review of banking client's compliance with Regulation DD, including performing walkthroughs, obtaining evidence of compliance, leading a team of 8 testers, and communicating exceptions to client management
- Delegated testing responsibilities to new team members and reviewed work for adherence to quality measures
- Tested and documented tests of clients' Information Technology General Controls (ITGCs) in the areas of access to programs and data, program change, program development, and computer operations
- Built strong relationships with client management when performing walkthroughs

## TECHNICAL SKILLS

Computer Skills: Windows OS, Microsoft Excel, Eclipse, CLion, Github, OpenCV
Programming Languages: Java, C++, HTML, Python

## ACTIVITIES AND HONORS

UB Nanosatellite Laboratory, February 2017 – Present
Dean's List, May 2010 – Present
Buffalo United Martial Arts, Jiu Jitsu, Judo, and Muay Thai, June 2015 – Present

## LICENSURE

Certified Public Accountant