Thomas G. Hagen

hage0699@vandals.uidaho.edu | 208-874-9342 | thomasghagen.weebly.com | 1742 S. Canonero Way Boise, ID 83709

Education

Major: Bachelors of Science Computer Science | Minor: Mathematics | University of Idaho Moscow | May 2017

Related Coursework: Game Development, Computer Graphics, Database Design, Survivable Systems and Networks, Data structures, System Software, Computer Architecture, Operating Systems, Programming Languages, Theory of Computation, Compiler Design, Analysis of Algorithms

Technical Competencies

Proficient in:
- C/C++/Arduino C
- Java
- Python
- Microsoft Office
- Microcontrollers/Embedded Systems

Knowledgeable in:
- Linux OS
- Windows OS
- OS X
- Android OS Development

Familiar with:
- HTML/CSS
- Eclipse IDE
- Android Studio IDE
- 3D Graphics Programming

Projects

Senior Design Project: Flywheel Energy Storage System GUI   Spring 2016-Fall 2016
- Designed and developed graphical user interface to control high-yield energy storage system as a team of four
- Collaborated with engineers from different disciplines to create best possible product
- Developed in C++ using the Qt framework
- Resulted in completely functional, professional-looking, easy to use interface

Game Development Project: Cyberwar 9001   Spring 2015
- Developed Galaga-like game in Android Studio with LibGDX graphics library
- Game plays on both PC (arrow keys) and Android (accelerometer)

Personal Project: Club Card Day Application for Android   Winter Break 2014-2015
- Solved the problem of unknowingly missing your membership day benefits
- XML used for user interface and Java used for Android API
- App handled network integration, system level interaction, and optimization to minimize hardware resources
- Completed and shared app with friends to test across a variety of devices

Directed Study: Quadcopter Tx/Rx Communication Protocol   Spring 2014
- Worked with team of three to establish wireless network between Xbee shielded Arduinos
- Wrote code to translate C into Arduino C so the Arduino could send and receive data packets from a PC GUI
- Achieved accurate and reliable communication across all devices

Work Experience

Computer Counselor | Kamp Kohut   Summer 2017
- Taught Python and HTML/CSS to young adults enrolled in computer and web design classes
- Educated students in basic and advanced coding concepts as well as design principles

Professional Mover | Two Men and a Truck   Summer 2016
- Exercised excellent verbal communication with customers of all different background and locations
- Efficiently loaded trucks to be full, yet safe for travel conditions and in accordance with DOT requirements

Leadership/Extracurricular

Scholarship Chairman | Alpha Kappa Lambda Fraternity   Fall 2013
- Oversaw and proctored study table for the freshman class and upperclassmen who had struggled academically the previous semester
- Tutored peers, collected and monitored grades, and handled incentive programs