Alex Dahl

Halethorpe, MD 21227

507-244-1978 adahl1@umbc.edu ardahl.github.io

Education

Bachelors of Science, Computer Science, Recieved December 2015 University of Minnesota-Twin Cities, Minneapolis MN GPA: 3.55

PhD, Computer Science, Started August 2016 University of Maryland Baltimore County, Baltimore MD

Coursework

Physically-based Animation, Fundamentals of Computer Graphics II, Program Design and Development, Design and Analysis of Algorithms, Numerical **Analysis**

Skills

Proficient in the languages C, C++, Python, Java Ability to write and communicate with clarity Able to collaborate with a team effectively

Projects

Intelligent Ground Vehicle Competition, GOFIRST Fall 2012-Jun. 2015 **Autonomous Snowplow Competition, GOFIRST** Fall 2014-Current

- Worked in a team to solve problems relating to autonomous navigation
- Worked individually to implement parts of the robot software and electrical design
- Developed and maintain code for the robots sensor and pathing systems
- Utilized existing robotics packages combined with our own code to develop a solution

Jobs

Usability Lab Assistant

University of Minnesota, Minneapolis, MN

- Managed the participant recruiting process for multiple concurrent usability projects
- Served as a receptionist managing participant paperwork
- Provided audio and video support during evaluations
- Assisted University's tech support phone line

Undergraduate Teaching Assistant

Jan. 2015-May 2016

Nov. 2013-Dec. 2015

University of Minnesota, Minneapolis, MN

- Teaching assistant for the following classes: Introduction to C/C++ for Scientists and Engineers
 - Introduction to Algorithms and Program Development

 - Elementary Computational Linear Algebra
- Explained the basics of the language and general programming concepts to a large number of students
- Evaluated homework and tests and held office hours to ensure students understood course concepts

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Graduate Assistant

Aug. 2016-Present

University of Maryland Baltimore County, Baltimore, MD

- Teaching Assistant for Introduction to Computer Graphics
- Explained graphics concepts such as raytracing and rasterization
- Evaluated homework and tests and held office hours to ensure students understood course concepts
- Taught lecture when filling in for the professor

Volunteer and Extracurricular Activities

GOFIRST Booth Volunteer

Nov. 2012-Aug. 2016

Various Events, Minneapolis, MN

- Managed large groups of kids
- Explained beginner robotics concepts in a way that kids could understand
- Presented info on FIRST robotics to parents to help get them interested

FIRST Volunteer

Fall 2013-Present

Various Events, Twin Cities, MN

- Volunteered to help with various FIRST competitions
- Applied technical skills to assist teams with troubleshooting and inspection
- Worked in a team to help make the event run smoothly
- Provide rules expertise in robotics competitions

Video Game Development Club

Fall 2013-Dec. 2015

- Developed game concepts and tech demos
- Utilized various tools to assist in developing games
- Developed AI and procedural systems to be used in games