

ALEX DAY

Grove City, PA · aday@clemson.edu · (724) 841 2634 · <https://www.alexday.me>

EDUCATION

Clemson University

Ph.D. Computer Science (*GPA: 4.0/4.0*)

Clemson, SC

September 2020

Clarion University of Pennsylvania

B.S. Computer Science (*cum laude*)

Clarion, PA

August 2016 - December 2019

RESEARCH EXPERIENCE

Clemson University

Graduate Research Assistant

Clemson, SC

September 2020

- Working with Dr. Ioannis Karamouzas on learning multi-robot navigation from human data
- Developing a pipeline for efficient quantitative evaluation and visualization of collision avoidance techniques

University of Arizona

CAT Vehicle Research Assistant (REU)

Tucson, AZ

May 2019 - August 2019

- Created a domain specific language to create autonomous vehicle paths with 3 other students
- Developed a verification server in Flask that proved the safety of a given path
- Extensively tested the language and verification in both simulation and on hardware

PUBLICATIONS

Alex Day, Chris Mankos, Soo Kim, and Jody Strausser. CoNFET: an english sentence to emojis translation algorithm. In *35th Annual Spring Conference of the Pennsylvania Computer and Information Science Educators (PACISE)*. PACISE, April 2020

Alex Day and Soo Kim. A comparison of automatic extractive text summarization techniques. In *34th Annual Spring Conference of the Pennsylvania Computer and Information Science Educators (PACISE)*, pages 98, 102. PACISE, April 2019

TALKS

Alex Day, Chris Mankos, Soo Kim, and Jody Strausser. Sentence compression using emoji summarization. Penn-York Undergraduate Research Conference, November 2019

Alex Day. The VEX robotics programming language for competing. Clarion University Open Day for Pennsylvania Rural Robotics Competitors, April 2018

Alex Day. Introduction to Git, GitHub, and contributing to open source. Clarion University Association of Information Technology Professionals, October 2018

Alex Day. How to utilize the UnitTest module in Python 3. Clarion University Association of Information Technology Professionals, February 2019

POSTER PRESENTATIONS

Sam Hum, **Alex Day**, and Riley Wagner. Verification and creation of autonomous vehicle trajectories for non-experts with reactive design-time feedback and sensor-based response. Undergraduate Research Opportunities Consortium at the University of Arizona, August 2019

EXPERIENCE

Clemson University

Lead Graduate Teaching Assistant

Clemson, SC

September 2020

- Assist faculty members with instruction using remote learning technologies
- Lead two lab sections of 30 students to reinforce new software development techniques

JGMS Inc.

Data Scientist (R&D)

Grand Rapids, CO

May 2020 - September 2020

- Designed neural networks for massive document classification and bid prediction with Keras in Python
- Developed REST API using Flask to expose an endpoint for document summarization and classification
- Conducted market research to determine market gaps for future projects

Komatsu Mining Ltd.

Franklin, PA

Student Engineer

May 2018 - August 2018 and December 2018 - January 2019

- Implemented a logging management tool in C# to be used on all Komatsu Mining equipment
- Created data analysis tools in Excel VBA and Python to assist with debugging of all mining machines
- Augmented the Longwall Shearer testbed with a powercycle scheduler built on the Raspberry Pi platform

SKILLS

Programming Languages: Python, C/C++, Java, C#, HTML/JavaScript/CSS

Technologies: Linux, Git, L^AT_EX, Tableau, Robot Operating System/Gazebo, SQL

LEADERSHIP AND INVOLVEMENT**Clemson University Graduate Student Government**

Clemson, SC

Senator – Computer Science Department

January 2020

Clemson University Intellectual Property Committee

Clemson, SC

Graduate School Representative

January 2020

College of Business and Information Science Advisory Board

Clarion, PA

Member – Computer Science Department

January 2019 - December 2019

Association of Information Technology Professionals

Clarion, PA

August 2016 - December 2019

President

August 2018 - May 2019

Vice President

August 2017 - May 2018

AWARDS**PACISE 2020 Best Undergraduate Student Paper**

January 2021

Clarion University CS Dept. Student of the Month

December 2019

Clarion University Deans List

Fall 2018, Spring 2019