

ALEX DAY

Charleston, SC · alex@alexday.me · <https://www.alexday.me>

EDUCATION

Clemson University Clemson, SC
Ph.D. Computer Science (*GPA: 3.8/4.0*) September 2020 - Present

Clarion University of Pennsylvania Clarion, PA
B.S. Computer Science (*cum laude*) August 2016 - December 2019

SKILLS

Programming Languages: Python (Proficient), C/C++ (Proficient), POSIX Scripting, C#, MATLAB
Technologies: Linux (Proficient), Git/GitHub (Proficient), ROS, L^AT_EX

EXPERIENCE

Clemson University Motion Planning Lab Clemson, SC
Graduate Research Assistant September 2020 - Present

- Analyzing data and running studies related to real world human-robot interaction (HRI) data
- Supervising undergraduate researchers, reviewing PRs, and writing HRI ROS frameworks
- Developed deep-learning based high level controllers in PyTorch for human inspired multi-agent navigation with another Graduate Student

Carnegie Robotics LLC Pittsburgh, PA
Software Engineering Intern Summer 2021, 2022 & Winter 2021, 2022

- Prototyped novel methods for validating and calibrating sensors intrinsics, extrinsics, and timestamps
- Developed new drivers and improved diagnostics reporting for a large ROS-based autonomous vehicle platform
- Reviewed and approved PRs related to sensor drivers and calibration tooling
- Designed, trained, and validated LSTM-based steering controllers using large amounts of visual data

JGMS Inc. Grand Rapids, CO
Data Scientist (R&D) 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 relating to computer security

PAPERS

[A Study in Zucker: Insights on Human Robot Interaction](#) July 2023

- Created a simulation framework for human-robot interaction in ROS
- Developed novel motion tracking system based on the HTC Vive
- Analyzed trajectories to quantify human efficiency, benchmark SOTA trajectory prediction methods, and a enumerate an interaction law

LEADERSHIP AND INVOLVEMENT

Clemson University Graduate Student Government Clemson, SC
Webmaster May 2021 - May 2023
Senator – Computer Science Department January 2021 - May 2021

Clemson University Intellectual Property Committee Clemson, SC
Graduate School Representative January 2021 - May 2023

Clemson University School of Computing Clemson, SC
Graduate Teaching Assistant August 2020 - May 2022

Association of Information Technology Professionals Clarion, PA
President August 2018 - May 2019
Vice President August 2017 - May 2018

AWARDS

Zucker Graduate Education Center PhD Grant Spring 2023
PACISE 2020 Best Undergraduate Student Paper January 2021
Clarion University CS Dept. Student of the Month December 2019
Clarion University Dean's List Fall 2018, Spring 2019