KRISTIAN ZADLO - kfz207@nyu.edu - (708) 955 7498 https://KristianZ.github.io **EDUCATION SKILLS** Masters of Science in Integrated Design and Media Image Processing NNs and GANs New York University, New York City, NY GPA: 4.0/4.0 Expected May 2022 SQL and NoSQL Virtual 3D Staging **Bachelor of Science in Computer Engineering** Machine Learning Unreal Engine **Minor in Computer Science** Rose-Hulman Institute of Technology, Terre Haute, IN Fluent in Polish and English OOP GPA: 3.9/4.0 May 2020 (3 years) **EXPERIENCE** <u>Indiana Microelectronics, LLC, West Lafayette - AI Engineering Intern</u> June-December 2020 - Improved the calibration time of controllable microwave filters from 480 man hours to 7 minutes - Entrusted with conducting 5 presentations, 30 minutes each, on AI calibration work to potential clients - Leveraged NNs, GANs, and derivatives to create autonomous calibration programs - Analyzed 6 datasets of up to 10,000 frequency responses each against 4 varying capacitances - Rewrote a Python program and GUI for viewing and managing SnP files - Created a database program using the Digikey API for maintaining inventory of company parts - Wrote 2 additional GUIs and Python libraries for equipment interaction and ML tasks Relativity, Chicago - Software Engineering Intern May-August 2019 - Optimized 100 C# functional, integration, and unit tests to run cumulatively 40 minutes faster - Improved daily workflow by creating 4 Powershell scripts to automatically make test improvements - Upgraded a Jenkins pipeline that connects with Azure using Groovy and Powershell - Interacted daily with virtual machines and tens of files reaching 1000 lines of code <u>Vertabiz, LLC, Chicago - Startup - Lead Developer</u> May-December 2018 - Led a team of 3 interns and worked with a team of 4 on user experience and design - Designed and implemented a RESTful service that interacted with Firebase - Implemented a REACT Native application that communicated with RESTful services Polish Scouting Organization - Troop Leader August 2014-Present - Mentored groups of up to 25 young teens to become young leaders - Organized and led 13 trips with \$4,000 budgets for up to 40 people - Managed \$10,000 and organized leadership activities **COURSEWORK** Mixed Reality Filmmaking + Virtual Production + Motion Capture, NYU Fall 2020 - Spring 2021 - Manipulated 3D assets using Unreal Engine, Maya, and After Effects with scenography in mind - Recorded and key-framed 14 motion captures using RADiCAL and MotionBuilder - Created UnrealEngine blueprints to program 5 user OSC controls and 7 animations, 10 seconds long

Image Recognition + Embedded Machine Learning, Rose-Hulman

Spring 2020

- Created three Matlab applications for thresholding and morphological operations to isolate image elements
- Applied PCA, ICA, and NNMF algorithms to a training set of 40 images to obtain facial features
- Classified sunsets using machine learning algorithms such as SVM and CNN

HONORS ACTIVITIES

Tau Beta Pi Honors Society (Member) Eta Kappa Nu Honors Society (Webmaster and Tutor) Alpha Lambda Delta Honors Society (Historian) Chicago Startup Weekend (3rd Place) Terre Haute Startup Weekend (3rd Place)

Study Abroad in Rome, Italy NYU and Rose-Hulman Track and Field Teams IEEE HKN Student Leadership Conference Attendee Rose-Hulman Intramural Official Mazur Dancer at the White and Red Ball