samuelosi

about

Greetings! I'm Sam Losi, a 5th-year Architecture student at Carnegie Mellon with strong interests in computer science and computational design. My interests stem from the satisfaction of disenchanting the underlying magic of computation and the steps in making physical artifacts. More recently, I've recently gained a fascination with the parallels between puzzle games and software, and have been exploring that subject in my free-time reading.

professional experience

Rethinking Automation in Construction – Research Assistant

Pittsburgh, Pennsylvania — Fall 2021 – Present

- Collaborated with a contracting company in preparation for the use, testing, and development of a Fetch robot on a series of active construction sites, each in a different phase of construction.
- Reviewed existing works within Human-Robot Interaction. In the review process, began to distill major themes and gain an understanding of the field. Collected relevant papers and uploaded them to a Zotero Library as an asset for the research team to read and learn from.

CMU School of Architecture 2020 EX-CHANGE – Web Dev Team

Remote — Summer 2020

- Presented with the challenge of creating a digital experience to display the school of architecture's work, created a previous version of https://exchange.soa.cmu.edu/ from scratch.
- Collaborated through a Git Hub repository and adeptly shaped a series of digital galleries through visual motifs and recognizable locations across and about Carnegie Mellon's campus.

Cuyahoga County Dept of Public Works – Intern

Cleveland, Ohio — Summer 2019 & Summer 2020

- Designed, drafted, and specified a series of brick and metal signs for the facilities group's offices.
- Rigorously documented art across all floors of the county's headquarters building, researched and credited the artists. Then, formatted the collective works' information into a 150 page PDF.
- With the county's architect, attended meetings as the client to plan and oversee a great many county-owned buildings in the greater Cleveland area, experiencing professional relationships.
- Using photoshop for post processing and 3ds Max for modeling, stitched together a versions of a photo-realistic bridge renders for the updating of Chagrin Falls' city-defining historical bridge.
- Designed a small detour route to reorganize traffic around a future culvert construction project.

Perspectus Architecture – Intern

Shaker Heights, Ohio — Summer 2018 & Winter 2018

- Using "autoCAD, Photoshop, plot, then mark-up" as a workflow for a series of schematic design ideas to discuss with the owner of numerous senior living projects across the United States.
- Updated the firm's extensive Revit BIM libraries in parallel with the company's BIM manager.
- Used Illustrator to perfect the colors on my hometown's children's Safety Town building facades pre-fabrication. This work was part of the firm's outreach program, aimed at local communities.
- Laser cut sheets and constructed a topographical model for a large medical facility in Maryland.
- Specified uncommon medical research equipment and drafted changes in autoCAD and Revit in a series of updates to many of Cleveland's University Hospital's large-scale pharmacy locations.
- Inspected and documented the windows of two of Cleveland's many historic buildings: White Mansion, on Euclid Avenue's historical Millionaire's Row and the Stuyvesant Car Co. tower.

Digital Fabrication Lab – Monitor & Summer Assistant

Pittsburgh, Pennsylvania — Fall 2019 – Present

Generative Modeling with Grasshopper – Teaching Assistant

Pittsburgh, Pennsylvania — Fall 2019 & Fall 2021

Introduction to Architectural Robotics – Teaching Assistant

Pittsburgh, Pennsylvania — Fall 2020

Introduction to Digital Media – Teaching Assistant

Pittsburgh, Pennsylvania — Fall 2018 & Spring 2019

Carnegie Mellon Athletic Department – Mascot

Pittsburgh, Pennsylvania — Fall 2017 & Spring 2018

- Served as the Carnegie Mellon University costume mascot, the Scotty Dog, at service events, campus activities, and school sporting events, representing the school's ideals through action.

education

Carnegie Mellon University - College of Fine Arts

Pittsburgh, Pennsylvania- Expected Graduation May 2022

Bachelor of Architecture

Minor in Computational Design

Brecksville-Broadview Heights High School

Broadview Heights, Ohio

Honors Diploma - Graduated May 2017

leadership

Eagle Scout - Boy Scouts of America

Greater Cleveland Council, Ohio — Awarded October 18th, 2016

- Instructed younger scouts in various team-building exercises concerning scout skills, life lessons, and moral choices, passing down the lessons I was taught by the scouts that came before me.
- Planned, arranged and led a 100+ hour service project, raising money through a charity dinner and installing directional signs for the large Brecksville-Broadview Heights High School campus.

coursework

Design for Social Justice Studio
Digital Design Fabrication
Digital Media
Ethics of Practice in Architecture
Enviro. Climate and Engineering
Fund. of Computational Design
Fund. of Programming
Generative Modeling
Intro. to Architectural Robotics
Intro. to Computer Systems
Principles of Imperative Computing
Machine Learning for Design
Inquiry into Computational Design

skills

3ds Max
AutoCAD
Blender
C
Git
Glassblowing
Grasshopper
HAL
html5/CSS
Illustrator
InDesign
Linux/Unix
Maya
Processing
Python
RAPID
Revit
Rhino
Vi/Vim

contact

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