

mark chen

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education

- **master of architecture - carnegie mellon university**
Pittsburgh, PA, May 2026
- **bachelor of science - university at buffalo, the state university of new york**
Buffalo, NY, May 2024
 - Major in Architecture, Minor in Environmental Design
 - Alpha Ro Chi (APX), member

key projects

- **"LRT Community Proposal"**
Buffalo, NY, May 2024
 - Over the semester, worked under Brad Wales and his Small Built Works Program to propose a Light Rail Transit to Buffalo, NY as a speculative design proposal.
 - Drafted a set of site documentation for succeeding semester work on AutoCAD, met with rail professionals and community members to discuss design options, and executed design documents and renders with AutoCAD, Rhino 7, and Blender.
 - Presented findings along with the program to a community audience of 100+ as a discussion in revitalizing the city.

experience

- **sustainable design research assistant / carnegie mellon university**
Pittsburgh, PA, September 2024 - Present
 - Produced an annotated bibliography with 100+ entries on pre-existing academic journals focusing on technical AQ monitoring, media-related community engagement, and environmental policy in the scope of the Global South on Excel + G.Sheets.
 - Assembled a batch of 10 low-cost AQ monitors through IoT (internet of things) technology to be deployed in Nigeria.
 - Ongoing study to analyze PM1.0, PM2.0, PM10.0 and CO data provided from AQ monitor to produce data visualizations for the rural Nigeria community through art work.
- **direct service person / hasc center**
Brooklyn, NY, December 2023 - August 2024
 - Developed and implemented personalized workshops tailored to children with developmental disabilities, leading to improvements in children's micro-social cues and independence.
 - Attended biweekly Individualized Service Plan (ISP) meetings with parents, and worked with agency to prepare for government documentation.
 - Practiced training with family for essential health-related events and issues such as special diet requirements, community resources, and medication management.
- **direct service person / a very special place**
Brooklyn, NY, December 2022 - August 2023
 - Aided children with developmental disabilities in practicing autonomy, and daily life skills.
 - Managed biweekly reporting for three cases at a time on child welfare and program efficacy between parents and educators to identify key areas of improvement and foster a collaborative environment.
 - Improved children's independence and social adjustments through guiding careful exposure of specific social scenarios.

awards

- **bachelor of science in architecture hyatt's design award**
Buffalo, NY, May 2021

skills

AutoCAD, Revit, Rhino 3D, REM/Rate, Lumion 3D, Climate Consultant, Photoshop, Illustrator, Lightroom, Premiere Pro, InDesign, Sketchup