Michael Trobia
1537 South 6th Street, #3R • Philadelphia, PA 19147
+1(585) 683-1970 • michaelandrewtrobia@gmail.com • LinkedIn: www.linkedin.com/in/michaeltrobia
Portfolio Available Upon Request

Professional Summary

Mission-driven professional with a background in GIS, community development, and leadership. Proven expertise in geographic analysis, data visualization, and cross-functional collaboration, with a focus on improving community resilience and equity. Adept at leveraging tools like ESRI ArcGIS Pro, Power BI, and GIS mapping to inform urban planning and decision-making. Passionate about transitioning into roles that combine technical skills and a commitment to social impact.

Education

Arizona State University – Barrett Honors College
Bachelor of Arts in Geography (Expected 2026)

Certificate in Geographic Information Science (2024)
Relevant Coursework: GIS I-III, Cartography & Georepresentation, Health, Illness & Society, Cultural Competency in Healthcare, Sustainable Cities

Meliora Consulting
Lean Six Sigma Green Belt (2019)

Fellowship Experience

Community Capital Lab
Remote
Fellow
2024 – Present

- Collaborated with a global team to develop the Community Capital Dashboard, quantifying eight forms of capital to support sustainable urban planning.
- Contributed GIS insights to improve dashboard functionality, including interactive maps and digital twin models.
- Facilitated brainstorming sessions to identify key metrics for expanding dashboard usability for academics and policymakers.
- Supported global contributors in integrating socio-economic data into visual frameworks, driving equity-focused decision-making.

Academic Projects & Thesis Work

Medically Underserved Census Tracts in Philadelphia

- Conducted Service Area Analysis to map walking accessibility to healthcare facilities in underserved neighborhoods.
- Identified that 20% of census tracts were entirely underserved, providing actionable recommendations to address inequities.

Academic Projects & Thesis Work Continued
Bicycle Lane Effectiveness in Philadelphia
- Analyzed accident data and traffic volumes using ESRI ArcGIS Pro, revealing that 54% of accidents occurred on streets without bicycle infrastructure.
- Recommended infrastructure improvements based on the safety performance of different bike lane types.

Thesis Prospectus: Mapping Ecological Deficits (In Progress)
- Developing a framework to investigate the relationship between biodiversity loss, ecosystem services, and public health outcomes in urban neighborhoods.
- Research planning includes using GIS tools to map ecological deficits and overlay data with socio-economic indicators for equity analysis.

Professional Experience
American Red Cross
Philadelphia, PA

Manufacturing Supervisor – Quality Control and Component Production
2022 – Present
- Promoted to lead overnight QC Lab shift, tasked with improving productivity and reducing discard rates.
- Spearheaded workflow changes, resulting in a 25% increase in productivity and a 40% reduction in production losses.
- Developed Power BI dashboards to track actionable metrics, enhancing data-driven decision-making.
- Mentored and trained staff on process improvements, fostering team collaboration and compliance with CGMP standards.

Lead Laboratory Technician – Component Production
2020 – 2022
- Supervised production processes and quality assurance for over 500 blood units per shift.
- Designed a waste-tracking system, reducing product waste and improving operational efficiency.
- Collaborated with leadership to implement new equipment and workflows, reducing backlogs across shifts.

Volunteer Contributions
Humanitarian OpenStreetMap Team & MapSwipe
Remote
- Contributed to remote mapping projects supporting global disaster relief and community development efforts.

Technical Skills
- **GIS Software:** ESRI ArcGIS Pro, StoryMaps, QGIS
- **Data Analysis:** Power BI, Excel (Advanced), Python (Beginner)
- **Compliance Standards:** CGMP, FDA, AABB, CLIA