Michael Trobia

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Professional Summary

Geography and GIS professional with a commitment to community resilience, equitable planning, and environmental protection. Experienced in spatial analysis, data visualization, and cross-sector collaboration with tools such as ArcGIS Pro, Power BI, and StoryMaps. Proven leadership in quality-focused environments, with additional involvement in workplace equity and organizational culture initiatives. Currently completing final general electives toward a BA in Geography; open to relocation and eager to contribute to public or nonprofit missions through geospatial insight and community-centered planning.

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 in Society, Cultural Competency in Healthcare, Sustainable Cities

Meliora Consulting
Lean Six Sigma Green Belt, 2019

Fellowship Experience

Community Capital Lab — Remote
Fellow | 2024
- Contributed GIS insights to the global Community Capital Dashboard, mapping eight forms of capital to support inclusive urban planning.
- Facilitated global brainstorming sessions and supported data integration to advance equity-focused frameworks.

Academic Projects

Medically Underserved Census Tracts – Philadelphia
- Conducted service area analysis to map walkable access to healthcare facilities.
- Found over 20% of tracts completely underserved and proposed practical improvements.

Bicycle Lane Effectiveness – Philadelphia
- Mapped crash data against bike infrastructure; found 54% of incidents occurred on streets without bike lanes.
- Developed recommendations based on relative safety of protected vs. unprotected lanes.

Thesis Prospectus (In Progress): Mapping Ecological Deficits
- Designing a GIS-based framework to explore links between biodiversity loss, ecosystem services, and public health disparities in urban settings.

Professional Experience

American Red Cross – Philadelphia, PA

Manufacturing Supervisor, Quality Control & Component Manufacturing | 2022–Present
- Promoted to lead overnight quality control lab shift; improved throughput and lowered discard rates.
- Developed Power BI dashboards to inform operational strategy.
- Led process improvement efforts, increasing productivity by 25% and reducing losses by 40%.
- Mentored new technicians and ensured compliance with CGMP, FDA, and AABB standards.
- Serve on DEI Committee and Culture Squad, advancing inclusive workplace initiatives.

Lead Laboratory Technician – Component Production | 2020–2022
- Oversaw blood product manufacturing and quality checks across 500+ units per shift.
- Designed waste-tracking system and helped implement equipment upgrades to reduce backlogs.

Volunteer Work

Humanitarian OpenStreetMap & MapSwipe — Remote Contributor
- Participated in disaster relief mapping and community infrastructure data projects in underserved areas.

Technical Skills

GIS & Mapping: ArcGIS Pro, QGIS, StoryMaps
Data Analysis: Power BI, Excel (Advanced), Python (Basic)
Regulatory/QA: CGMP, FDA, AABB, CLIA

Professional Affiliations

Geospatial Professionals Network (GPN) – Member
Arizona Geographic Information Council (AGIC) – Member