

# EDGAR MEDINA

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## PROFESSIONAL EXPERIENCE

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### GIS ANALYST

2016 - PRESENT

*INDOORVU/GEOCAM, LOS ANGELES, CALIFORNIA*

- Work with a variety of spatial and non-spatial data including shapefiles, geodatabases, rasters, json, csv, CAD
- Develop methods for spatial analysis that include extracting statistics from both vector and raster outputs, site selection analysis, and other complex calculations.
- Develop custom python scripts to support automation and data manipulation using gdal, arcpy, pandas, and the ArcGIS API for python
- Perform quality control on data and finalize deliverable reports to send to clients and partners
- Produce static and interactive maps ranging from outdoor site plans to detailed indoor floorplans
- Manage ArcGIS Online content, groups, and users
- Work with data at various scales, from mapping hundreds of assets within a building to thousands of transportation related assets state-wide
- Provide technical support, troubleshooting assistance, oversight, and training for internal team, partners, and clients with varying levels of GIS experience
- Audit existing processes for efficiency and identify areas of improvement
- Research and implement new tools and workflows, maintain internal and client-facing technical documentation.

### GIS AND FORESTRY INTERN

2015 – 2016

*CALFIRE, LOS OSOS, CA*

- Sampled flora throughout San Luis Obispo County in California. Measured the flora's water moisture content and results were submitted to the National Fuel Moisture Database.
- Surveyed forests in Cambria, CA to quantify tree mortality rates and measure the forest floor's potential for fire fuel in preparation for the fire season.
- Produced suppression repair maps to assess post-wildfire damage using Fire Incident Mapping Tools (FIMT) via ArcMap.
- Collaborated on maintaining a county-wide building dataset using Java OpenStreetMap (JOSM) to edit geometries and attributes.

## EDUCATION

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### B.S. Anthropology and Geography

*California Polytechnic State University San Luis Obispo, 2016*

### A.S. Computer Science

*Santa Monica College, 2023*

## RELEVANT COURSEWORK AND CERTIFICATES

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- **GEOG 318** Applications in Geographic Information Systems
- **GEOG 440** Advanced Applications in GIS
- **GEOG 414** Global and Regional Climatology
- **GEOG 415** Meteorology
- **CS 1** Problem Solving and Program Design Using C++
- **CS 2** Introduction to Data Structures
- **CS 30** Advanced Programming in C++
- **CS 14** Introduction to Programming with Python
- Google Data Analytics Professional

## SKILL PROFICIENCIES AND PROGRAMMING LANGUAGES

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- Leaflet
- ArcGIS Suite
- Map Box
- QGIS
- Other Open Source GIS Libraries
- Python
- C++
- Java
- Critical thinking
- Collaborative
- Bilingual (Spanish)

## REFERENCES

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- **Alyssa Luna**  
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- **Austin Van Brasch**  
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