

JOEL RODRIGUEZ, ENP, PMP

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◦ DETAILS ◦

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◦ LINKS ◦

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◦ SKILLS ◦

Technology Solutions
Negotiation
Purchasing
Vendor Contracts
Github
Imagine (3D Modeling Software)
Pgrouting
Research
Planning
Erdas Imagine
WaterCAD
ArcGIS (GIS Software)
R (Programming Language)
SQL (Programming Language)
Data Storytelling
Geoprocessing
Microsoft Office
Quantum GIS (QGIS)
MicroStation (CAD Design Software)
Statistics
Surveys
AutoCAD
C (Programming Language)
PostgreSQL/PostGIS
Python (Programming Language)
Node.js
Remote Sensing



PROFILE

PMP and ENP-certified Geospatial Engineer and 9-1-1 Coordinator with more than six years of experience delivering integrated telecommunications, GIS, and civil infrastructure solutions. Demonstrated success managing mission-critical public safety operations, coordinating cross-functional stakeholders and vendor partnerships, and providing advanced technical support for municipal systems. Skilled at converting complex geospatial and operational data into actionable intelligence that enhances decision-making, improves efficiency, and ensures compliance with regulatory and audit requirements.



EMPLOYMENT HISTORY

9-1-1 coordinator at Manatee County Government

Aug 2023 — Present

- Work involves planning, selecting, and integrating system components for voice, data, digital, wireless, and video telecommunications networks.
- Coordinate on a 24-hour on-call basis the specialized technical needs of Manatee County's Emergency Communications Center (ECC) with commercial carriers and contractors.
- Work under limited supervision with considerable latitude for the use of initiative and independent judgment.

Civil Engineering Analyst (Development Services) at Kimley-Horn & Associates, Sarasota

Aug 2021 — Aug 2023

- Work on technologies such as AutoCAD Civil3D, Excel, MicroStation, Open Roads, GIS, SewerCAD, Watercad, Geoprocessing tools
- Data inspection and analysis.
- Bring the most innovative GIS techniques for job presentation.

Survey/GIS Analyst 2 at Element Engineering Group, Tampa

May 2020 — Aug 2021

- work with technologies like Lidar, Topodot, Microstation, and open source languages such as QGIS, Postgis and the likes.
- Input data into database.
- Apply GIS techniques for job representation.

Photogrammetry Editor at I F Rooks & Associates, Plant City

Mar 2016 — Jan 2018

- Edit and organize data collection.
- Inspect the final product, Work on volumetric calculations with Terramodel.
- Perform general editing with MicroStation, and DOT legacy files in a context of Remote sensing, photogrammetry and GIS.



EDUCATION

Master of Computer Science, University of Pennsylvania (Paused)

Aug 2023 — Jan 2024

Photogrammetry	Geomatics Engineering (Magna Cum Laude),, Florida Atlantic University, Boca Raton Jan 2018 — May 2020 Graduated with honors.
HyperText Markup Language (HTML)	
Java (Programming Language)	Advanced certificate in Geographic Information Systems,, Florida Atlantic University, Boca Raton Jan 2018 — Jun 2019
Data Mining	
Geospatial Data Abstraction Library (GDAL)	Associate Degree in Art, Hillsborough Community College, Tampa May 2016 — Dec 2017
Surveying	
MongoDB	Surveying, Universidad Autonoma de Santo Domingo, Santo Domingo Jan 2007 — Dec 2012
Analytics	
Strategic Planning	
Public Opinion	★ PROFESSIONAL CERTIFICATIONS
Cascading Style Sheets (CSS)	Emergency Number Professional (ENP) May 2024 — Present Internationally recognized credential demonstrating expertise in 9-1-1 operations, leadership, and public safety communications.
Market Analysis	
Storytelling	Project Management Professional (PMP)® May 2025 — Present Globally recognized certification validating project leadership, planning, execution, and stakeholder management expertise.
React.js	
JavaScript (Programming Language)	Certified Emergency Fire Dispatcher (EFD) Jun 2026 — Present Certified in fire dispatch protocols, emergency call processing, and incident prioritization.
Tableau (Business Intelligence Software)	
MATLAB	Certified Emergency Police Dispatcher (EPD) Jun 2026 — Present Certified in law enforcement dispatch protocols, call triage, and resource coordination.
PowerBI	
◦ LANGUAGES ◦	Certified Emergency Medical Dispatcher (EMD) Aug 2026 — Present Certified in emergency medical call handling, pre-arrival instructions, and patient care protocols.
Spanish	
	👥 INTERNSHIPS
	Geomatics Engineering -Intern at Stantec, West Palm Beach May 2019 — Aug 2019 - Acted as liaison between crews and management. - Conducted data extraction using TopoDOT. - Completed data quality review, editing, reporting, and analysis.
	Data Analyst at 18PRPro, West Palm Beach, FL May 2019 - Researched survey topics and gathered relevant information. - Reviewed, classified, and prepared survey data for analysis. - Analyzed survey results to accurately represent respondent opinions.