

Ruben Brionez Jr

GIS Solutions Engineer

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PROFILE SUMMARY

GIS Solutions Engineer with 10+ years of experience delivering automation, geospatial systems integration, and data-driven engineering solutions within telecommunications and infrastructure environments. Specializes in building Python and ArcGIS Enterprise automation workflows, Power Automate orchestration, and cross-platform data pipelines that improve data quality, reduce manual processing, and scale operational workflows. Proven success developing custom geoprocessing tools, enterprise GIS integrations, and operational dashboards that support engineering and construction decision-making. Holds a Master's in Data Science, combining applied analytics and machine learning with production GIS solution delivery.

TECHNICAL SKILLS

Languages & Query

Python • SQL • ArcPy • ArcGIS Python API

GIS & Geospatial Platforms

ArcGIS Pro • ArcGIS Enterprise • ArcGIS Portal • ArcGIS Web Experience Builder • Feature Services • Geoprocessing Toolboxes
ArcGIS Online

Automation & Workflow Orchestration

Power Automate (Cloud & Desktop) • Python Automation • Scripted GIS Workflows • Data Validation & QA Automation • Batch Geoprocessing

Data & Integration

REST APIs • API Integration • Data Pipelines • Feature Layer Automation • Cross-System Data Integration • JSON Processing
OAuth / Token Authentication

Development & Tools

PyCharm • VS Code • Jupyter Notebooks • Git/GitHub • Office 365

Analytics & Data Science

Pandas • NumPy • Scikit-Learn • Exploratory Data Analysis • Predictive Modeling • Spatial Analysis

WORK EXPERIENCE

GIS Solutions Engineer

Omni Fiber | Mason, OH | 2024 - Present

- Designed and deployed Python and ArcGIS Enterprise automation workflows that streamlined geospatial engineering processes and reduced manual data preparation across design and construction teams.
- Developed reusable ArcGIS Pro and ArcPy geoprocessing toolsets to standardize feature processing, BOM generation, and spatial validation across multiple project areas.
- Built cross-system data integrations between enterprise data sources and ArcGIS feature services, improving data accuracy and synchronization across engineering platforms.
- Implemented Power Automate cloud and desktop workflows to orchestrate triggered data updates, reporting steps, and operational process automation across GIS and business systems.
- Published and maintained automated geoprocessing services and scripts within ArcGIS Enterprise, enabling shared, organization-wide access to standardized GIS workflows.
- Engineered automated attribute validation and QA/QC frameworks using Python and spatial rules to improve data integrity and reduce downstream correction effort.

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- Developed operational dashboards and advanced ArcGIS expressions to track construction progress, feature metrics, and engineering KPIs for leadership and field teams.
- Led GIS solution design efforts supporting fiber network expansion planning, market analysis, and construction prioritization using spatial and tabular datasets.
- Standardized GIS schemas, templates, and engineering data structures to support consistent vendor deliverables and internal design workflows.
- Collaborated with engineering, construction, and IT stakeholders to translate operational requirements into scalable GIS automation and integration solutions.

SENIOR HFC DESIGNER

Charter Communications | Riverview, FL | 2018 - 2024

- Led GIS-driven outside plant and FTTx design initiatives across multiple regional build programs, supporting large-scale fiber and RDOF deployments.
- Served as regional subject matter expert for design data, GIS workflows, and engineering systems, standardizing processes across teams and vendors.
- Directed address reconciliation and data correction initiatives using ArcGIS and SQL queries to improve design accuracy and database reliability.
- Developed and implemented regional design standards and cross-training programs to improve consistency, onboarding speed, and team capability.
- Integrated engineering design data with ArcGIS systems to maintain accurate spatial records and enable downstream planning and reporting workflows.
- Coordinated cross-functional design efforts and technical training to improve delivery quality and workflow efficiency across project teams.

FIBER NETWORK ARCHITECT

Bright House Networks | Riverview, FL | 2014 - 2018

- Managed enterprise fiber network records and spatial asset data to maintain accuracy across multiple markets and hub service areas.
- Designed construction diagrams and engineering blueprints supporting enterprise and backbone fiber deployments.
- Helped establish internal FTTH and FTTx construction standards to improve design consistency and documentation quality.
- Coordinated with construction and maintenance teams to support critical fiber route restoration and emergency response planning.

EDUCATION

MASTER'S OF SCIENCE DATA SCIENCE | Bellevue University, Omaha, Nebraska

08/2025

BACHELOR'S OF SCIENCE INFORMATION STUDIES | University of South Florida, Tampa, Florida

07/2014

CORE COMPETENCIES

GIS Solution Design • Workflow Automation Strategy • Cross-System Integration • Geospatial Data Standards • Process Optimization
• Technical Documentation • Cross-Functional Technical Collaboration

SOLUTIONS & AUTOMATION PROJECTS

- Enterprise geoprocessing automation framework for FDH boundary and BOM processing
- Portal feature service synchronization automation using ArcGIS Python API
- Power Automate triggered GIS data validation and reporting workflows