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| Jonathan Parsons |

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| 44820 Milestone SQ. APT. 203. Ashburn, VA 20147 |  |
| 434-365-9860 |  |
| sciencepro10@yahoo.com |  |
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**Advanced geospatial scientist with an active TS/SCI with CI Polygraph**, **bachelors in geospatial science, minor in environmental science, 4 years of relevant work experience in the geospatial science fields, and 4 years of experience in the healthcare field**.

Primary applicable experience includes working in government intelligence, manufacturing, utility and local government fields editing, analyzing, managing, modeling and administering geospatial data and software systems. Looking to apply industry experience to the Journeyman Source Strategies Analyst position with IC-CAP. Looking to relocate to a more affordable part of the country for family purposes.

# Experience

### **SEPT 2022-PRESENT**

##### **Geospatial Intelligence Analyst (40 hours/week)**

##### **Leidos Inc.**

##### **Reston, VA**

Geospatial Intelligence Analyst working at DIA for DTRA. Working on the HTRAC UFAC and STRATCOM Program. Using exploitation products, intelligence, geological, geotechnical and geospatial resources and expertise to produce intelligence reports, site evaluations and perform analysis on hard targets.

Providing geological and geotechnical guidance and judgement throughout the characterization process to produce accurate intelligence estimates and reports. Working within a mixed team to include intelligence and imagery analysts, geologists, and engineers to translate characterization analysis to conduct Underground Target and Analysis Systems (UTAS)/ Integrated Munitions Effects Assessments (IMEA) 3-D models for weaponizing.

Using ArcPro, ERDAS, MATLAB, IMEA and government research tools and sites to produce 3-D geospatial products and models for products and reports.

### **May 2022-SEPT 2022**

##### **Geospatial Data Analyst (CONUS/OCONUS) (40 hours/week)**

##### **CACI International**

##### **National Ground Intelligence Command Center**

##### **Charlottesville, VA**

 Geospatial Data Analyst working in the U.S. Army Engineering Branch at NGIC. Working with the testing and data teams in the United States and overseas, to develop a new and advanced geospatial mobility model utilizing various technical input parameters and variables. The position includes researching, testing and assessing technical and mechanical capabilities of foreign ground vehicle in Adams software, and using data from various geospatial sources to produce a new, advanced geospatial mobility model of foreign vehicle systems and capabilities in ESRI ArcGIS Suite.

The position includes leveraging geospatial expertise in the testing and evaluation of combat mobility problems data sets to develop assessments of intentions and capabilities, limitations, and vulnerabilities of military systems and technologies. Integrating and analyzing data from on-going testing and evaluation of foreign combat mobility and incorporate and ingesting data into an enterprise ArcGIS platform. Traveling to Nevada and Germany to meet with and conduct research with teams of engineers and scientist.

Conducting analysis of current and future system capabilities, limitations, and/or vulnerabilities resulting in the production of comprehensive all-source assessments, engineering analysis reports of assessed technical capabilities, and populating and maintaining databases on conventional weapons and systems.  Providing knowledge of complex physical and mathematical principles associated with operation of mobility systems.

### **September 2021-May 2022**

##### **Sr. Geospatial Intelligence Analyst (40 hours/week)**

##### **CACI International**

##### **National Ground Intelligence Command Center**

##### **Charlottesville, VA**

Geospatial Intelligence Analyst, providing GEOINT and OSINT intelligence and analytic expertise to special government clients. Specific job focuses include the research, collection, organization, extraction and conversion of data, database creation, GIS data management and geospatial analysis on various projects.

Project areas focus on telecom, utility, and infrastructure GEOINT, Imagery, and OSINT research, data capture, and analysis. Supporting a multi-intelligence fused team of specialist solving difficult problems that vary between projects, and includes long-term project efforts, geospatial intelligence imagery exploitation and production, and geographic information systems data analysis and production to create time-sensitive intelligence solutions.

Querying, assessing, integrating, manipulating, and analyzing digital data and imagery (full spectrum literal and non-literal), both geospatial and research databases, and various ancillary sources; extracting data from imagery to create spatial databases. Researching and gathering information; completing data analysis and evaluation, geospatial data reformat and conversion, and photo interpretation. Producing multi-INT enriched geospatial products tailored to answer customer intent and requirements. Translating GEOINT requirements into appropriate requests for imagery or queries using all available imaging sensors or GEOINT databases.

Interacting with professional colleagues to communicate research mission, issues, and geospatial requirements. Performing intelligence analysis on various sources of imagery, including Electro-Optical (EO), Spectral, Thermal Infrared (TIR), Synthetic Aperture Radar (SAR), and Overhead Persistent Infrared (OPIR), and various sources of GIS data, including spatial-temporal event data. Performing data fusion by combining various types of data to create a product with an increased level of understanding of the targeted area than can be achieved with a single data source.

Identifying additional collection platforms and datasets that provide valuable insights or added value to the program's analysis. Using Activity Based Intelligence (ABI) techniques to mine large GIS and temporal datasets for analytic leads and developmental opportunities. Specific job focuses areas include the collection, organization and database creation and management of telecom and utility based geospatial data sets.

##### **MAY2019-MAY2020**

##### **Systems Analyst (40 hours/week)**

##### **Huntington Ingalls Industries**

##### **Newport News, VA**

Systems Analyst with Newport News Shipbuilding, Huntington Ingalls Industries. The world’s premier military shipbuilder. Working to install, and debug new Siemens software versions across department computer systems, create technical manuals and train call center employees on software error resolution and technical assistance for end users.

Primary duties included developing computer systems specifications that address business requirements and that fit with the company’s system architecture standards. Establishing and documenting system parameters and formats, ensuring hardware and software systems compatibility and coordinating and/or modifying system parameters in terms of existing and projected computer capacity and capabilities.

Revising existing systems and procedures to correct deficiencies and maintain more effective data handling, conversion, input/output requirements, and storage. Responsibilities included planning, implementing, configuring, maintaining, and problem resolution for multiple SharePoint environments, integrated applications and supporting infrastructure. Interfacing with Business Resource Managers, Technical Managers, and other peers to provide lifecycle support of SharePoint and integrated applications; enforce compliance of policies, procedures and work instructions; perform capacity planning, performance monitoring, incident and problem management, change and configuration management, and service level performance.

Designing, developing, documenting, testing and debugging applications software and systems that contain logical and mathematical solutions. Conducting multidisciplinary research and collaborating with equipment designers and/or hardware engineers in the planning, design, development, and utilization of electronic data processing systems for product and commercial software. Determining computer user needs; analyzes system capabilities to resolve problems on program intent, output requirements, input data acquisition, programming techniques and controls; preparing operating instructions; designing and developing compilers and assemblers, utility programs, and operating systems. Ensuring software standards are met.

### **March 2018-MARCH 2019**

##### **GIS Engineering Tech (40 hours/week)**

##### **Pike Corporation**

##### **Greenville, SC**

GIS Engineer with Pike Corporation working to provide GIS and technical project support services to Laurens Electric EMC in rural South Carolina. Working to implement ESRI ArcGIS software and geodatabases across department computer systems. Installing ArcGIS ArcMap on department computer systems. Collecting various forms of GIS electrical and utility data from historical archives, CAD and technical engineering drawings, GPS, state and local government parcel, property, address, tax and road network, and imagery data, to create geodatabases, data layers, and features in ArcMap for geospatial technicians on an enterprise system.

Working to develop and deploy a new utility-based GIS mobile application using ESRI Survey and Collector 123 for field staff to view, collect and save field data, and make edits on the fly. Experience creating electrical utility usage reports and manuals for geospatial technicians and editors, using formulas, tables, charts, and diagrams in Microsoft Excel and ArcMap. Additional experience working with utility field crews, producing cartographic map products for new utility construction areas, working with new-built technical field diagrams and engineering drawings to add new utility construction projects to the GIS system using ESRI tools and extensions.

### **May 2017-August 2017**

##### **GIS Intern (40 hours/week)**

##### **Aiken County Government**

##### **1930 University Pkwy, Aiken, South Carolina 29801**

Experience working with ESRI ArcMap on independent projects for county and public needs. Experience with cadastral tax mapping, versioned editing of geodatabase layers and features, interpreting and the ability to edit data layers and perform COGO design from surveyed plats and property deeds in ArcGIS and Autodesk AutoCAD. Experience researching property owner deeds, titles, and land ownership documents in property record database software Alchemy and Novalis. Experience georeferencing and digitization of scanned drawings. Experience with utility easements and right of ways. Experience using local government software to update deed, tax, and property information for the county database system. Experience working closely with the assessor’s and Register Mesne Conveyance office and interacting with the public, answering questions concerning online public property information on the county website. Experience updating software on county computers.

### **May 2016-october 2016**

##### **GIS and IT Services Intern (40 hours/week)**

##### **Roanoke County Government**

##### **Roanoke, Virginia**

GIS and IT Intern at Roanoke County Government IT Services Department, working to create interactive web map applications for government departments and country residents. Used ESRI ArcMap to edit and create features in versioned environment, including georeferencing and digitizing building footprints and adding new address points to the county map system. The use of ArcMap to create comprehensive map products for county purposes. Used Autodesk AutoCAD to digitize outlines of property boundaries in survey creation of plats, parcels, and building footprints. Used field Trimble GPS units to trace property lines in the field. Used ESRI Survey 123, and Collector applications. Used templates, Notepad ++, and JavaScript, to create interactive web applications for residents. Used high resolution imagery and cameras to complete a geodatabase for an interactive web survey for residents to report zoning violations and property assessment purposes.

### **March 2011-May 2012**

##### **Certified Nursing Assistant (40-50 hours/week)**

##### **Salem, VA**

Certified Nursing Assistant for the VA Medical Center in Salem, Virginia. providing independent field work to hospice, end of life and post-op rehabilitation care to veterans. Examples of nursing assistant duties included physical and mental rehabilitation exercises via physician or nurse case manager guidance, providing basic care needs to clients, documenting client progress through detailed notes on mobile device, over the duration of physician or nurse case manager care.

### **May 2007-August 2009**

##### **Certified Nursing Assistant (30-40 hours/week)**

##### **Lynchburg, VA**

Certified Nursing Assistant for Team Nurse in Lynchburg, Virginia, providing independent field work to hospice, end of life and post-op rehabilitation care to geriatric and special needs clients. Examples of nursing assistant duties included physical and mental rehabilitation exercises via physician or nurse case manager care plans, providing basic care needs to clients, documenting client progress through detailed notes on mobile device, over the duration of physician or nurse case manager care.

# Education, Training, and Certificates

### mARCH 2022

##### Geospatial Professional Certificate

### April 2021

##### TS/SCI Clearance through DOD

### may 2017

##### Bachelor of Science Geospatial Science, Environmental Science Minor/Radford University, Radford, Virginia

### August 2014

##### ESRI ArcGIS Desktop Certification/ESRI

### AUGUST 2013

##### ITAR/EAR Training/Society for International Affairs, Orlando, Florida

### December 2012

##### 17 Credits Towards Bachelor of Science Geology/West Virginia University, Morgantown, West Virginia

### AUGUST 2011

##### ITAR/EAR Training/Society for International Affairs, Arlington, Virginia

### December 2010

##### Bachelor of Science Health Sciences/University of Lynchburg, Lynchburg, Virginia

### MAY 2007

##### Virginia Board of Nursing, Certified Nursing Assistant License

# Technical Skills

* 4 years of advanced experience with ESRI ArcGIS Enterprise suite;
	+ ArcMap, ArcPro, ArcSDE, ArcFM, ArcCatalog, ArcGIS Model Builder with python, ArcSQL, ArcView, ArcInfo, ArcPython, Spatial Analyst, 3D Analyst, ArcToolbox, and custom extensions.
		- Experience creating geodatabases from various orthoimagery, multi-spectral, raster, and vector data layers
		- Experience with versioned editing, reconcile and posting data edits
		- Experience analyzing and editing GIS data layers, attribute information and features, performing spatial analysis using ArcGIS tools, ArcFM, and producing quality cartographic products
		- Experience in complex vector network and raster surface analysis
		- Experience performing geometric design from deeds and surveyed plats
		- Experience performing QA/QC with infrastructure and utility design using ArcMap
		- Experience performing As-Built design in ArcGIS using customized toolbars
		- Experience with relational database management systems (RDMS)
		- Experience performing geocoding from tables
		- Experience georeferencing right of way and easement drawings
* Advanced experience with QGIS
	+ Experience with QGIS, editing, creating data layers, features, feature sets, digitizing aerial imagery, importing files and data layers, adding map elements and creating finished map products
* Experience with ArcGIS Online and portal
	+ Experience with ArcGIS Online and portal to publish mobile map applications
	+ Experience with web map applications including Survey 123 and Collector
* Experience with ERDAS Remote View and ERDAS IMAGINE
	+ Experience using ERDAS software to perform orthoimagery, water quality and vegetation analysis using satellite imagery and application
* Experience with IMEA creating 3D terrain blocks for geospatial analysis
* Experience with MATLAB creating geological models on hard targets
* Experience using OSINT tools and products to conduct research on targets, collect, convert and analyze data from various sources and cloud-based systems, into usable forms for charts, tables, graphs, diagrams and reports
* Experience with Siemens Teamcenter and CAD NX
	+ Experience navigating Siemens TC and NX software to help users resolve complex client errors, bugs, and technical problems
* Advanced experience with Google, and Google Earth
	+ Experience with data capture and collection of pertinent geospatial related information, KML and KMZ files.
* Experience with Autodesk AutoCAD 2D drafting and design
	+ Experience with AutoCAD 2D performing basic COGO design from surveyed plats
	+ Experience exporting CAD files to ArcMap for parcel and survey analysis
* Experience with Deeds, Surveyed Plats, Easements and Right of Way drawings
	+ Experience reviewing deeds, surveyed plats and right of ways, and performing parcel edits; joins, splits, combines in ArcMap
	+ Experience georeferencing easement and ROW dwg files in ArcMap
* Experience with Trimble GPS and LiDAR data collection, Pathfinder Office, TerraSync
	+ Experience developing tables in Pathfinder office to be used in data collection with a Trimble GPS unit, collecting data in the field and transforming data to proper geographic projection scale and size from base stations
* Experience and understanding of GSM-R, LTE communication towers, and networks
* Knowledge of SCADA systems and utility distribution networks
* Experience with HAZUS-MH and HEC-RAS
	+ Experience using HAZUS-MH and HEC-RAS to develop natural hazard and hydrological models and reports for economic impact analysis
* Advanced Microsoft Office suite; Word, Excel, Power Point, Outlook
	+ 9+ year using all applications to write and produce technical reports, develop complex graphs and charts for data analysis purposes, and develop power point presentations for various purposes and presentations
	+ Experience writing basic tutorial manuals for junior IT and GIS staff to follow to produce basic utility reports and troubleshoot IT ticket requests
	+ Experience with Office 365
* Experience and understanding with LAN, WAN, firewalls, and the 7-layer OSI Model
* Experience with HP Service Manager and Bomgar remote login software
	+ Experience installing, updating, and testing different software on client computers using ticket systems to track, complete and document tasks
* Experience working with AWS shared services
* Experience working with Microsoft Outlook, Office 365 and Teams
* Experience with ITAR and EAR
	+ Advanced training with export and import documentation and control.
	+ Experience filing out licenses and submitting licenses for export through DTrade and The Defense Export Control and Compliance System (DECCS)
	+ Experience with CRN numbers for export classification
* Advanced experience in the healthcare field as a Certified Nursing Assistant
	+ 5 Years of experience as a Certified Nursing Assistant working for the Veteran Affairs hospital in Roanoke, Virginia and for Generation Solutions in private, home health.
	+ Experience working with a wide variety of clients from rehabilitation to hospice, end of life care.
	+ Experience performing intensive nursing care to disabled, geriatric and special needs populations in the rural Appalachia region of Southwest, Virginia.
	+ Experience driving and navigating difficult back-country roads and terrain, where most people wouldn’t dare go, to reach remote patient locations.
	+ Experience making life-saving decisions for patients.

# Activities

* Parents both worked for Pratt and Whitney, Pentagon Naval Warfare, and JHU-APL for 35 and 40 years respectively, now retired
* Lynchburg College Wind Symphony and Jazz Band (4-year scholarship)
* National Scholars Honor Society inductee
* Phi Eta Sigma Honor Fraternity inductee
* Exception environmental awareness, navigation and map-reading skills
* Thru-hiked the Virginia section of the Appalachian Trail
* Boy scouts of America
* Keen eye for attention to details
* Disabled American Veterans donor

# References

* Kent E. Hofler, US Army, 434-980-7383, kent.e.hofler.cir@army.mil
* David Wray, Roanoke County Government, GIS Manager, 540-588-2861
* Les Parsons, HII-NNS, Senior Export Compliance Officer, 301-335-7822
* Michael Segars, City of Beckley Fire Dept, Fire Marshall, 240-483-7173
* Andres Cruz, CACI International, Sr Intelligence Op, 520-437-1096
* Kory Marshall, Apple, Customer Service Representative, 434-664-7552
* Ezekial Jeansonne-Moore, Gay and Neel Engineering, CAD Drafter, 540-577-2365