Adam Nelson

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https://www.iamadamnelson.com

PROFESSIONAL EXPERIENCE

Employer: U.S. Army Corps of Engineers (USACE), Engineering Research and Development Center (ERDC), Construction Engineering Research Laboratory (CERL), Sustainment Management Systems (SMS) Technical Center of Expertise (TCX)
Title: Engineering Technician (Civil) (DE-0802-04)
Location: Remote/Virtual
Duration: March 2021 – Present
Duties:

- Served as the Engineering Technician for a team of research engineers, scientists, and software developers working on the development, adaptation, and integration of various facilities and infrastructure asset management software.
- Supported users in integrating SMS software into their business processes and facilitated the exchange of data with other facility-related systems, such as GIS, asset management, maintenance, and real property management systems.
- Develops, modifies, and provides input to project plans, and identifies customer's information systems requirements. Supported product development with quality assurance by testing and providing feedback to the engineering and software development teams.
- Participated in basic and applied research projects for long range construction planning and analysis in support of AMC and IMCOM leadership on improving the Facility Investment Plan (FIP) and Facility Investment Analytics (FIA) processes.
- Utilized Azure SQL and on-premises SQL databases as a data connection to create data models for various Power BI dashboards for SMS, IMCOM, AMC, and DCS G-9, which were used in current research projects and to support ongoing data calls for a variety of OPORDs, FRAGOs, and senior leader engagements.
- Created a SharePoint Online (SPO) site, lists, PowerApps, and Power Automate flows for CERL travel request and trip reporting processes. This provided an automated cloud solution for streamlining legacy business processes.
- Created a Power BI report to extract warranty data from various manufacturers' REST APIs using Power Query M language and DAX. This provided an on-demand source for warranty status of various IT equipment.

Employer: U.S. Army Garrison, Directorate of Public Works, Business Operations Division
Title: Engineering Technician (Project Manager) (GS-0802-11)
Location: Fort Novosel, Alabama
Duration: November 2020 – March 2021
Duties:

- Assists customers in developing projects including determining appropriate scope, classifying work according to current regulatory and statutory guidance, accomplishing preliminary estimates and integrating the project into current annual work plans. Participates actively in the decision-making process as to what contract vehicle is best suited for customer projects. Advises customers the level of funding required for projects and the availability of funding within various programs. Identify requirements and develop and recommend operating budgets for SRM and O&M minor construction programs.
- Provides technical assistance and the review and inspection for projects submitted by A&E firms and other outside entities for compliance with standards, design criteria and facility codes and regulations. Provides technical support to construction management and contracting officer representative (COR) staff to resolve project issues. Coordinates with contracting command to develop, solicit and award contracts. Conduct infrastructure inspections and submit project prioritization recommendations.

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PROFESSIONAL EXPERIENCE

Employer: U.S. Army Garrison, Directorate of Public Works, Engineering Division, Engineering Design Branch
Title: Engineering Technician (Civil) (GS-0802-09/11)
Location: Fort Novosel, Alabama
Duration: February 2006 – November 2020
Duties:

- Conducted land surveying and developed designs, plans, and specifications for civil works projects, including control, construction, alignment, topographical, and boundary surveys. Designed and managed projects for the repair, restoration, modernization, and operations and maintenance of Army real property facilities and infrastructure.
- Supported a design staff of architects and engineers for interdisciplinary contracts, including BASOPS, IDIQ Paving, Job Order, Service, and U.S. Army Corps of Engineers SATOC, MATOC, and IDIQ Roofing contracts. Provided technical assistance, review, and inspection for all installation projects.
- Managed CADD software and provided technical support, training, coaching, and troubleshooting to Public Works and Garrison staff. Implemented design standards to improve speed, efficiency, and accuracy, and maintained software agreements, licenses, updates, and building codes and regulations.
- Coordinated and developed geospatial data, including data collection, analysis, editing, and cartography, in collaboration with the GIS Program Manager. Ensured compliance with Army standards, accuracy, and verification of contractor-supplied geodatabases, and provided technical assistance to architects, engineers, project managers, mission partners, and contractors in the use and integration of GIS.
- Maintained installation drawing database and project documentation, cataloging, storing, and organizing them in hard copy and electronic format. Provided liaison to internal and external stakeholders to ensure proper file organization, structure, and redundancy for quick retrieval and protection of project documentation.
- Accountable for approximately $200,000 of Engineering Division property as primary hand receipt holder. Responsible for ADP equipment acquisition, turn-in, and security, including high-value engineering equipment and tools such as GPS base station, GPS rover receivers, data collectors, levels, and robotic and conventional total stations.
- Administered office network as Information Management Officer (IMO), overseeing approximately thirty end user personal computers (PCs), one file/application server, and three large format engineering plotters, and provided first level IT support to engineering staff. Monitored equipment warranties and imaged and replaced equipment according to life cycle replacement policy.

Employer: Positioning Solutions Company
Title: Product Support Manager
Location: Waukesha, Wisconsin
Duration: February 2005 – August 2005
Duties:

- Responsible for the installation, support and maintenance for GPS machine control products, precision surveying products including GPS base stations, GPS rover receivers, data collectors, robotic and conventional total stations, levels, theodolites, and lasers. Attended trade shows, product demonstrations and vendor training in support of sales staff. Directly accountable for internal store sales and marketing, store inventory, shipping and receiving and training customers on the functions and practical use of all store products. Administered office network to include store sales and asset management software and customer notification system. Received vendor president endorsed Certificate of Appreciation for writing and producing installation manuals and technical bulletins specific to new-to-market machine control products. Influential part of inaugural installation of GPS machine control on CAT excavators.

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PROFESSIONAL EXPERIENCE

Employer: Tier 3, Inc.
Title: GIS Technician
Location: Milwaukee, Wisconsin
Duration: July 2004 - February 2005
Duties:

- Contracted for Cox Communications to perform GIS technician and assistant project management duties. Assignments included updates of complex overhead and underground coaxial and fiber distribution networks using Smallworld GIS software. Responsible for data migrations/ translations from CADD to Smallworld to include recently incorporated field markups and as- built data. Trained a subordinate staff of four in the migration, editing and archiving of completed projects for transfer to client by virtual private network (VPN). Created Microsoft Access databases to track employee productivity, quality assurance/quality control (QA/QC) and daily project status reports. Created help libraries to perform attribute definition modifications to improve overall project goals.

Employer: U.S. Army Active Duty Enlisted
Title: Combat Engineer Team Leader
Location: Fort Campbell, Kentucky
Duration: November 1999 - December 2003
Duties:

- Team Leader for a four-man air assault combat engineer team. Assisted the squad leader in the training of squad members, maintenance of M998A1 HMMWV, sapper kits, demolition kits and all additional squad assigned equipment. Responsible for the health, morale, and welfare of subordinate team members. Assumed the duties of squad leader in their absence. Served as Admin NCO, Weapons NCO, and NBC NCO during enlistment tenure. Deployed twice in support of peacekeeping and combat missions in Kosovo (KFOR3A) and Iraq (Operation Iraqi Freedom, OIF1).

- Completed 320 Hour Primary Leadership Development Course, 80 Hour Combat Lifesaver and CPR certification, 40 Hour Defensive Driving course, 40 Hour M998A1 HMMWV Mechanics and Driver Course, 80 Hour Air Assault Course and 40 Hour M240B Master Gunner course.

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EDUCATION

Institution: Western Governors University
Major: Software Engineering
Degree: B.S. Software Engineering
Duration: January 2024 Current

Institution: Troy University, Troy/Dothan, Alabama
Major: Computer Science
Degree: Some College Coursework Completed
Duration: August 2010 – August 2016

Institution: Garrard County High School, Lancaster, Kentucky
Diploma: Advanced College Preparatory Diploma
Duration: August 1996 – June 1999

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SKILLS

- Advanced knowledge of Microsoft Operating Systems (Windows 11, Windows 10, Server 2012 (R2), Server 2019) and experience with system administration, configuration, and troubleshooting.
- Advanced knowledge of Microsoft 365 and experience using it for collaboration, document management, and workflow automation. Proficient in Word, Excel, PowerPoint, and Access with advanced knowledge in SharePoint Online (SPO) including customization, governance, and security.
- Advanced knowledge of Microsoft Power Platform and experience developing Power Apps, Power BI reports and dashboards, and Power Automate workflows. Familiarity with Power Virtual Agents.
- Intermediate knowledge of Microsoft Azure and experience with cloud infrastructure, storage, networking, security, and monitoring.
- Intermediate knowledge of T-SQL, Python, Java, Node.js, R, REST API, DAX, Power Query, PowerShell, and experience with data modeling, analysis, and scripting.
- Advanced knowledge of Autodesk software for 2D/3D design and drafting, including Civil 3D, AutoCAD, and the AECC software suite. Experience with BIM workflows and collaboration using BIM 360.
- Intermediate knowledge of Autodesk Revit and experience with building information modeling (BIM) for architecture, engineering, and construction projects.
- Proficient knowledge of ESRI ArcGIS and experience with geographic information system (GIS) mapping, analysis, and visualization. Familiarity with ArcGIS Pro, ArcGIS Online, and ArcGIS Enterprise.
- Proficient knowledge of Gordian RS Means estimating software and experience with cost estimation, project planning, and resource management.
- Beginner knowledge of Adobe Photoshop and Illustrator and experience with graphic design and image editing for presentations, marketing materials, and social media.

TRAINING & CERTIFICATIONS

- CompTIA A+ (Expired)
- CompTIA Security+ (Expired)
- Microsoft Certified IT Professional (MCITP)
- MCSA: Windows 7
- Google IT Support Professional Certification (2023)
- FHWA Certified Bridge Inspector
- U.S. Army AR 420-1 Certified Dam Inspector
- U.S. Army Management Staff College Civilian Leader Intermediate Development Course
- Various Udemy/Percipio/Microsoft courses