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| ***KEN AKERMAN, MSCE*** | ***Phone: 480-628-5575*** [***Ken.Akerman*@gmail.com**](mailto:Ken.Akerman@gmail.com)[***https://www.linkedin.com/in/kenakerman/***](https://www.linkedin.com/in/kenakerman/) |

# Civil Engineer, Data Analyst, and Geospatial Scientist

Highly educated and motivated professional with the ability to perform engineering analysis and design, review civil engineering work of varying complexity and scope, and perform field inspections, observations, and evaluations. Able to work as part of a team and independently to follow procedures and implement engineering methods and processes to accomplish end results. Adept at applying scientific theory and skills to solve project issues and problems, combined with knowledge of codes and regulations governing civil engineering and public works project standards and guidelines. Productive and personable demeanor with a drive for continuous improvement, quality, and business excellence. Seeking long-term career stability and experience to earn my Professional Engineer (P.E.).

***CORE COMPETENCIES:***

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| * Skilled Technician and Problem Solver | * Construction experience with ACI certification |
| * Computer Applications and Engineering Software | * Infrastructure Improvement Projects |
| * Public utility experience in a flood control district | * GIS Mapping Software and AutoCAD |

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|  | **EDUCATION & TECHNICAL SKILLS** |  |

**Data Analytics Bootcamp** from University of Arizona, Tucson, AZ (May – November 2022)  
Python, SQL, Visual Basic, Matplotlib, HTML, JavaScript, R language, Tableau, Big Data, Machine Learning, and more.  
**MBA, Science, and Engineering Program** from Arizona State University, Tempe, AZ  
**M.S., Civil Engineering, Water Resources Planning and Management** from Colorado State University, Ft. Collins, CO. Courses and research studies included hydrology, hydraulics, fluid mechanics, and GIS applications.  
**M.A., Geography** from University of Arizona   
**B.S., Computer Science** from Rensselaer Polytechnic Institute, Troy, NY

**Certifications:** **Engineer-in-Training (E.I.T.)** from Arizona Board of Technical Registration  
**Professional Certificate in GIS** from University of Washington (2016)  
**Certified Floodplain Manager (CFM)** from Association of State Floodplain Managers

**Certified Associate in Project Management** from Project Management Institute (PMI)

**ACI Concrete Field Testing Technician – Grade I** from American Concrete Institute (ACI)

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|  | **EXPERIENCE** |  |

**Project Manager (Permitting Assistant)** **07/2022 – present**22nd CENTURY TECHNOLOGIES (under contract with Arizona Department of Environmental Quality)  
  
Management and development of water quality permits by incorporating technical information by engineers and hydrologists into project management applications such as Trello boards. Coordinating public records requests with the client records center. Conducting virtual meetings via Google Meet with specialists and property owners. **Property Inspector** **04/2022 – present**TitaniumCRE (independent contractor, part-time)  
  
Inspecting multi-family residential properties in Arizona and other states, performing overall assessments though detailed observations, taking notes and pictures. Writing analytical reports using OpenQuire templates to provide information for owners and property management companies to optimize their investments through refinancing.

**CIVIL ENGINEERING PROJECT MANAGER** **02/2021 – 03/2022**

RICKER, ATKINSON, McBEE, MORMAN & ASSOCIATES (RAMM Engineering) in Tempe  
  
Reporting to a Professional Engineer (P.E.), prepared proposals for construction materials testing (i.e. concrete, masonry, asphalt) and geotechnical analysis as a subcontractor to companies designing sites and building projects throughout Arizona. Projects included projects such as shopping centers, apartment complexes, and private schools, housing developments, dormitories, storage facilities, warehouses, factories, roads, parking lots, and other large projects, as well as smaller projects such as restaurants, auto service shops, and custom homes.   
Proposals delineated estimated quantities and costs for earthwork, trench backfill, concrete, masonry, and asphalt. Sum of successfully accepted proposals by clients have generated over $100,000 in corporate revenue in 2021.  
  
**FIELD ENGINEER (construction, structural, transportation, and geotechnical)**  **06/2020 – 12/2020**  
KRAZAN & ASSOCIATES in Tacoma, WA  
  
Earned two engineering job offers in March 2020, with Insight Engineering of Everett, WA and Krazan & Associates of Tacoma. Accepted position as Design Engineer at Insight Engineering in Everett, WA that was scheduled to begin on March 23, 2020. Start of work delayed and ultimately cancelled due to government-imposed business curtailments related to the worldwide COVID-19 pandemic, resulting in staff reductions.

Began opportunity as **Field Engineer** at **Krazan & Associates** on June 8, 2020. Responsibilities included concrete and/or masonry inspection and testing for new construction projects, and asphalt and soil inspection and testing.

Earned **ACI Concrete Field Testing Technician – Grade I** certification from American Concrete Institute.  
Certified to operate portable nuclear densometers from the American Portable Nuclear Gauge Association.  
  
**PRODUCT SPECIALIST, WAREHOUSE, DELIVERY**   **08/2018 – 03/2020**  
O’REILLY AUTO PARTS in Renton, WA (01/2019 – 03/2020)  
CERTIFIT AUTO BODY PARTS in Tukwila, WA (08/2018 – 01/2019)  
  
**PROFESSIONAL POSITIONS IN MANUFACTURING, CONSTRUCTION, & RETAIL INDUSTRIES 07/2016 – 07/2018**  
LINK STAFFING and EXPRESS EMPLOYMENT PROFESSIONALS in Seattle metro area, WA  
  
**BING MAPPING PRODUCT SPECIALIST (CONTRACTOR)**    **01/2016 – 06/2016**  
MICROSOFT in Bellevue and Redmond, WA  
Judged the quality of data locations in Bing Mapping and Visual Studio and adjusted data points as necessary.  
Suggested product improvements to optimize accuracy and add more value.   
  
**QUALITY SYSTEMS SPECIALIST**    **01/2014 – 01/2015** *(mass layoff)*  
BOEING in Tukwila, WA  
  
***PREVIOUS POSITIONS (reporting to registered Professional Engineers, totaling over four years of experience)***

**WATER RESOURCES and SITE DESIGN ENGINEERING DESIGNER**  **07/2003 - 11/2003**  
DEI PROFESSIONAL SERVICES in Phoenix

**GIS PLANNER**  **09/1999 - 06/2003**  
FLOOD CONTROL DISTRICT of MARICOPA COUNTY in Phoenix  
Key member of the Planning and Project Management Branch provided GIS analysis using Esri ArcGIS including ArcMap, ArcToolbox, and ArcCatalog. Performed GIS work for the Planning and Project Management Division.