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## CV, Inc. Capability Statement

### INTRODUCTION:

**CV, Inc.** is an Asian American small business DBE/MBE firm established in 2009 providing engineering and support services. Being a small firm, **CV, Inc.** offers the unique advantage of a small firm owner-to-client accountability combined with impressive depth of experience, and resource capability to meet the project demands of any scope or size. Our operation methodology is defined by three principles – Communication leading to Transparency; Training leading to Efficiency, and Innovation leading to Creativity.

**CV, Inc.** has been performing work on Open Ended IDIQ type contracts with Prime firms for MDOT, VDOT, WSSC, WMATA, MDSHA, MDE, DCDOT, DCRA, etc. Additionally, **CV, Inc.** has current experience with:

- MD** – Prince George’s (Approved Peer Reviewer), Montgomery, Baltimore, Anne Arundel, Carroll, Howard, Charles, and Frederick Counties;*
- VA** - Chesterfield, Fairfax, and Arlington Counties, City of Falls Church, Alexandria; and*
- DC** - Washington DC.*

**CV, Inc.** is equipped with required **software and hardware** to support all the operations in an efficient manner.

***Engineering** - AutoCAD Civil 3D, Microstation Inroads/Geopak, MS Office, TR-20/55/66, HEC-RAS etc.*

***Surveying** - Robotic Total Station (Trimble S6, 3" DR Plus; TOPCON); SP\*) GNSS Receiver; Ranger 3 w/Survey Pro etc.*

***Inspection/Testing** - Nuclear Gauge, Slump cone, Concrete Air meter, Photo-lonization Detector (PID), Dynamic Cone Penetrometers (DCP) etc.*

***Subsurface Utility Engineering (SUE)** - SPX Corporation Radiodetection 8100 PDL Precision Locator with a TX-10 transmitter*

**CV, Inc.’s** service areas include Facilities, Infrastructure, Sustainable Sites, Environmental, Field Services, Program Management/Permitting, and Design Build. These services are expanded on below:

### CAPABILITIES – EXPERTISE:

- *Field Surveys (Topographic, Boundary, As-builts, Record Plats, Easements)*
- *Utility Designation and Air Vacuum Test Holes*
- *Environmental Services (Wetlands, NRI/FSD/TCP, etc.)*
- *Hazmat Services (ESA Phase I & II; Lead & Asbestos Sampling, Phase III Remedial Measure; Phase IV - monitoring)*
- *Geotechnical Engineering*
- *Structural Engineering (Bridges, Site Structures, Vaults, Retaining Walls)*
- *Water, Sewer and Storm Drain Design (New Systems/Relocation)*
- *Water Resources Engineering/Floodplain Analysis/Drainage Investigations*
- *Stormwater Management & Erosion and Sediment Control*
- *Construction Inspection and Testing of Soils and Concrete*
- *Construction Scheduling*
- *Landscape Architecture and Planting plans*
- *Rosgen Style and Coastal Plain Outfall (Step Pool Style) Stream Restoration*
- *Facilities Assessments and As-builts*
- *Entitlements/ Permitting*
- *LEED, LID and ESD Designs for Sustainable Sites*
- *3<sup>rd</sup> Party PEER Reviews*

### Maryland Offices

416 Hungerford Drive; Ste 301  
Rockville, Maryland 20850  
Tel: 301.637.2510

7020 Tudsbury Road; Ste C  
Windsor Mill, MD 21244  
Tel. 410.504.1880

### Virginia Office

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Contact: **Chinmay Vyas**

[cv@c-v-inc.com](mailto:cv@c-v-inc.com)

or

**Anita Rappoport**

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Web: [www.c-v-inc.com](http://www.c-v-inc.com)

*(Note: New website to launch in 2016 as [www.cvinc.com](http://www.cvinc.com))*

Facebook:

<http://www.facebook.com>

[/CultivatingVishwas](https://www.facebook.com/CultivatingVishwas)

### **NAICS:**

237110	237990
541320	541330
541340	541360
541370	541380
541620	562910

### **D&B:**

964989128

### **CAGE:**

6YRW1

### **Certifications:**

- **MDOT MBE/DBE**
- Charles County MBE
- **WSSC SLBE and SLMBE**
- **Montgomery County MBE and LSBRP**
- **Prince George’s County MBE**
- Howard County DBE
- Baltimore City Prequalified
- Baltimore Co. PW Prequalified
- MNCPPC
- DDOT–WMATA (MWUCP) DBE
- MWAALDBE/DBE
- VDOT DBE
- VDOT SBE (VSBEP)
- SWaM MS
- DelDOT DBE
- PennDOT DBE
- SAM certified
- SBR certified



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### **WORK EXPERIENCE**

- WSSC (Water & Sewer Relocation/Same Trench Replacement / Extensions)
- WMATA (Yards, Bus Garages, etc.)
- Educational Facilities
- Maryland National Capital Park and Planning Commission (Parks)
- Stormwater Management Environmental Regulations Implementation
- Planning (Site – Subdivisions)
- Churches
- Residential Development
- Commercial Buildings
- Office Buildings; Industrial Parks (Warehouses)
- Retail Development
- Concrete Plants
- Bridges
- Highways; Streets; Parking Lots

### **RECENT WSSC EXPERIENCE**

Please see attached Current WSSC Contracts Sheet

### **CLIENT LIST (PARTIAL)**

- Washington Metropolitan Area Transit Authority (**WMATA**)
- State Highway Administration (**MDSHA**)
- Virginia Department of Transportation (**VDOT**)
- Washington Suburban Sanitary Commission (**WSSC**)
- District of Columbia Department of Transportation (**DCDOT**)
- Charles County Government
- AB Consultants, Inc.
- EBA Engineering, Inc.
- The Wilson T. Ballard Co.
- Brudis & Associates, Inc.
- OLBN Architectural Services, Inc.
- Jones Associates Architects
- GWWO, Inc./Architects
- Powe Studio Architects PC
- AVANTurs, LLC. / Architects
- McCormick Taylor, Inc.
- AB Construction Co., Inc.
- Potomac Construction Co Inc.
- Transcore ITS, LLC
- Walsh Federal, LLC / The Walsh Group
- Aggregate Industries Mid Atlantic Region
- Habitat for Humanity of Montgomery County, MD, Inc.

### **REFERENCES:**

#### **Mr. Jason Hetrick, P.E.**

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#### **Mr. Ray Dagher, PE**

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#### **Mr. Joseph Danquah, PE**

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#### **Ms. Wen Xiao, NCARB, AIA, LEED AP**

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#### **Mr. Yogesh Patel**

**Mr. Ernest Hamilton**  
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#### **Mr. Richard Freedman**

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#### **Mr. Rey DeGuzman, P.E.**

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#### **Mr. Ehsan Motazedi**

Montgomery County DPS  
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(240) 777-6321

#### **Mr. Chris Yun**

Washington Metropolitan Area Transit Authority  
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(202) 962-1549



## CURRENT WSSC CONTRACTS

- **WSSC CONTRACT NO: PM0007A13** (Borings, geotechnical engineering, pavement cores, surveying, test pits, MEP, utility designation, and structural liner capability)
  - **Task 1: Melzerott Road Water Main Replacement, Job BT5782A14, Laurel, Prince George County, MD**
  - **Task 2: Gorman Road Water Main Replacement / Relocation, Job BX5773A14 & BX5774A14, Prince Georges County, Maryland**
  - **Task 3: Manor Care Seminary Large Meter Vault Replacements, Job MV5894-B15, Prince George's County, Maryland**
  - **Task 4: Olney Water Main Replacement and Sewer Rehabilitation, Job BRCR5878A15, Montgomery County, Maryland**
  - **Task 5: Mitchellville South Park Water Main Replacement, Job BR5971A15, Prince George's County, Maryland**
  - **Task 6: Presley Manor Water Main Replacement, Job BR6021A16, AW6021L16, Prince George's County, Maryland**
  - **Task 7: Sonar Road Water Main Replacement, Job BR6018A16, Prince George's County, Maryland**
  - **Task 8: Muirkirk Water Main Replacement, Job BT6043A16, Prince George's County, Maryland**
  - **Task 9: Kensington Parkway Water Main Replacement, Job BRLR5837A15, Montgomery County, Maryland**
- **WSSC CONTRACT NO: PM00011A13** (Permitting, maintenance of traffic (MOT) design, ordering and distribution of door hanger, research and compiling plumbing card and valve card, ordering utility records., and WHC table)
  - **Task 1: Bel Pre Woods Water Main Replacement, Job BR5924A15, Montgomery County, Maryland**
  - **Task 2: Powder Mill Road, Job BR/BM5924A15, Prince George's County, Maryland**
  - **Task 3: New Batter Lane Park Water Main Replacement, Job BRCRLR5925A15, Montgomery County, MD**
  - **Task 4: Philadelphia Avenue Water Main Replacement; Job BT5970A15**
  - **Task 6: Warren Street Water Main Replacement, BR6058A16, Silver Spring, Montgomery County, Maryland**
- **WSSC CONTRACT NO: PM00018A08** (Surveying, including utility designation and engineering support, data research, plumbing/utility/door hangers, and MOT Plans)
  - **Task No. 116, Takoma Langley Crossing, Montgomery County, Maryland**
- **WSSC Seneca Wastewater Treatment Plant Datapod; RFP-1087, Germantown, Montgomery County, Maryland** (Utility designation, survey, soil borings, test pits, pavement cores, site design, and structural design)

## WSSC RELATED CONTRACTS

- **Easthaven Lane Water Main Replacement, City of Bowie, Maryland** (Topographic surveying and utility designation)
- **MCPS - Bel Pre Elementary School at Northlake Center Waterline Replacement, Montgomery County, Maryland** (Survey, design of water main relocation, sediment control, maintenance of traffic, and as-built)
- **MCPS - Carver Education Center Waterline Replacement, City of Rockville, Montgomery County, Maryland** (Topographic survey, 8" water line connection plan, MOT drawings, engineer's estimate, permitting, construction stakeout, and as-built)



## **OUR KEY STAFF**

**CHINMAY G. VYAS, PE, CFM, LEED®AP BD+C, President - Civil and Environmental Engineer** offers 26 years of significant experience in institutional planning, facility planning, transportation planning and design, civil engineering, infrastructure planning and design, watermain replacements, sewer lines enhancements / protection, utility requirement program phasing, planning and design, roads, parking lots, ingress/egress, transit and emergency exit evaluations and designs, client coordination, stakeholders design charrettes. Mr. Vyas has been progressively responsible for design of site plan, highway and interchange design, storm drainage and management, hydrologic and hydraulic evaluations, stream restoration, watershed modeling, flood plain analysis, flood hazard and insurance studies, sediment and erosion control, utility design, maintenance of traffic plans, engineer's estimate, specifications and contract documents. He has hands on experience in environmental assessments, remediations, Section 404 JD and environmental permitting. Experienced with TR-55, TR-20, HY-8, TR-66, KYPIPE2, HEC-1, HEC-2, and HEC-RAS. "Hands on" experience with AutoCAD, Land Development Desktop, Microstation, InRoads, etc. In addition, he has responsible experience with Phase I, II, III and IV Environmental Assessments, Regulatory Compliance, Hazardous and Non-Hazardous Waste Management, Risk Characterization, Oil and Hazardous Materials Spills Emergency Response, Analytical Testing, and Groundwater Management. He has performed wetland delineation and mitigation; forest stand delineation and tree conservation, joint permit application and waterway construction permitting. He is highly effective in providing innovative, workable solutions and managing projects to ensure quality, value and unprecedented client satisfaction. Mr. Vyas is a Certified LEED®AP, certified by Construction Management for Design Build Contracts, Troxler-Certified "Radiation Safety Officer" and Nuclear Gauge user and a member of American Society of Civil Engineers. He is a registered engineer in Maryland, Virginia, Pennsylvania, District of Columbia, and Delaware and is Rosgen Level I, II and III Certified.

**M.G. MENON, PE, Vice President - Structural Engineer and QA/QC** has a Master's Degree in Civil / Structural Engineering from the University of Texas, Austin and has over 36 years of management and hands-on combined experience in highway, bridge and urban street reconstruction projects, involving water main replacements and utility relocations. Mr. Menon has been involved in over 25 WSSC projects for watermain replacements and large water meter replacements. He managed the design of Watermain Replacements on urban streets, such as Benning Road, Nannie Helen Burroughs Avenue and 11<sup>th</sup> Street NW in Washington DC. The projects he has managed include new, widening, rehabilitation and replacements in environmentally sensitive areas. As the project manager he will be involved actively in directing the design concepts, preparing reports, specifications and cost benefit evaluations and maintaining the quality and will ensure that the project is done as per schedule. He is familiar with FHWA & AASHTO standards and specifications and State DOT practices in Virginia, West Virginia, Maryland and the District of Columbia.

**ROLANDO BANUA, PE, Business Unit Manager – Engineering - Civil and Highway Engineer** has over 26 years of experience on Watermain Relocations associated tasks for more than 20 projects for WSSC. Mr. Banua has a Bachelor's degree in Civil Engineering and has been extensively involved with



roadway reconstruction design, drainage, Hydraulic Analysis, environmental issues, utilities and Maintenance of Traffic on various projects in the MD, District of Columbia, Virginia and West Virginia for the last 25 years. He is familiar with AASHTO and FHWA standards as they apply to highway design, maintenance of traffic, safety regulations etc. Some of the urban projects which he designed include roadway widening and upgrades, alignment studies, highway drainage, upgrading of highway from 2 lanes to 4 lanes divided highway, safety improvements, ROW plans, construction easements, utility impacts, relocations, 404 permit work, public hearing, cost estimates and specifications. He is familiar with WVDOH, DDOT, VDOT, AASHTO & FHWA Standards & Specifications.

**ANDREW PARKS, PE, LEED AP, Director - Infrastructure** is a registered Civil Engineer with 20 years of experience working with federal, state and local government agencies. Mr. Parks specializes in environmental compliance and permitting, stormwater management (design, compliance inspection, retrofit), water resources sustainability studies, stream and wetland restoration design and permitting, shoreline erosion control design and permitting, sediment and erosion control design and permitting, and watershed assessments. He has functioned as the design lead for stormwater management and sediment control design and permitting on several large projects for MD SHA and DelDOT. Mr. Parks has designed and permitted numerous environmental mitigation plans for MAA, MES and MD SHA including several stream restorations, wetlands and stream bank stabilization. He has performed numerous expedited reviews for sediment and erosion control for various state and federal clients through the Maryland Department of the Environment. He has functioned as the design lead on several federal design-build projects performing utility design (water and sewer line design), structural design and stormwater management & sediment control design and permitting. Mr. Parks also has federal experience performing water resources sustainability studies on various military installations in accordance with E.O. 13514 and E.O. 13423.

**ANDREW HUSBANDS, PLS, Business Unit Manager – Surveying – Principal Surveyor** has over 30 years of experience in all types of surveying including, topographic surveys, boundary survey, monumentation and recordation, easements, property line surveys, stakeouts, and as-built surveys. Mr. Husband's experience includes highways, intersections, commercial properties, residential subdivisions, easements/right-of-way dedication etc. Mr. Husband is also well versed in the plat recordation and subdivision procedures. Mr. Husband is also experienced in the use and application of today's technological equipment such as GPS with capabilities of differential GPS and RTK, electronic total station with data collectors, electronic data exchange for map creation in computer software such as AutoCAD, Microstation etc. He is currently registered in Maryland and Washington DC, awaiting his approval from Virginia.

**ANITA RAPPOPORT - Permit Coordinator and Marketing Manager** has over 27 years of experience and offers significant experience in obtaining permits and approvals for engineering, environmental and surveying services needed for various stages of a project. Ms. Rappoport started working in this field in 1986 for her family's Architectural, Surveying, Engineering, and Landscape Architectural company. There she was trained by each department to learn their process and requirements, including field work and preparation of various AutoCAD drawing. Eventually Ms. Rappoport became





Managing Member / Project Manager and ran the business for 13 years. As Permit Processor she coordinates all departments and is in continual communication with the permitting agencies until completion of the project. One of the essential items Ms. Rappoport has to closely monitor and update is the permit tracker for current projects. Ms. Rappoport was trained by DPIE as a Permit Expeditor. Ms. Rappoport is also a Notary Public in Montgomery County, Maryland.

#### **SUPPORTING STAFF:**

**RAMESH PATEL, PE, Professional Engineer – Geotechnical Engineer**, is a Maryland Registered Professional Engineer (#21126) with over 26 years of experience in Geotechnical and Field Operations. His geotechnical engineering experience includes design of highway structures, geotechnical, and foundation engineering projects, including highway bridges, culverts, retaining walls, detailed soil engineering analysis, geotechnical recommendations, slope stability, embankment settlement, static and dynamic pile analysis, subsurface exploration, laboratory testing, computer modeling, pavement design and recommendations, feasibility studies, design for new facilities and renovations, improvements and/or restoration of existing facilities.

**GREGORY RALEY, EIT, Civil Site**, graduated from The University of Maryland where he enriched his experience by studying engineering abroad and by participating in The American Society of Civil Engineer's Concrete Canoe competition. Mr. Raley has over 5 years of experience in performing as-builts, cost estimates, stormwater management, field density tests using a nuclear test gauge, utility coordinator and utility designer and is responsible in training new technicians. Mr. Raley is registered and trained through Miss Utility program for utility coordination. His experience includes, utility records research (research jurisdiction limits/ online/GIS research), requesting utilities (detailed explanation letters/vicinity maps), Boring logs/test pit logs; boring/test pit permitting (plan, application bonding), and maintenance of traffic plans for work zones. Mr. Raley passed the Fundamentals of Engineering Exam and in the process of working towards his Maryland Professional Engineering License.

**CALEB HII, EIT, Engineer-in-Training - Utility Coordinator**, has over 2 years of experience as a utility coordinator and geotechnical engineer. He ensures all the utility requests are performed in timely manner and coordinated. Additionally, Mr. Hii is well exposed in coordinating all aspects of geotechnical drilling, inspection, sample collection, laboratory testing and reporting.

**JAIMIN DESAI – Surveyor and Inspector**, has over 5 years of experience as an environmental, concrete and facilities inspector, surveyor, structural CAD drafter, and QA/QC process implementation. Mr. Desai has his B.E. degree in Civil Engineering with focus on Highway Transportation, he has been instrumental in developing the Inspections programs by training and securing certifications in EPA AHERA Inspector, Lead Inspector DC, MD & VA, and ACI Concrete Field Testing Technician – Grade I. He has assisted our Environmental Engineer in Environmental studies, including lead and asbestos, Phase I and II studies and writing reports.



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**NATALIE SNYDER, MD-DNR Qualified Professional – Environmental Scientist** has a Bachelor of Science Degree Biology and Animal Behavior and also has her MD-DNR Qualified Professional Certification. Ms. Snyder has over 10 years of environmental studies experience. She conducts Environmental Studies, wetland delineation, forest stand delineation, wetland mitigation design, stream restoration design, and preparation of Natural Resource Inventories, Tree Conservation Plans Types 1 and 2, and Forest Conservation Plans. In addition, Ms. Snyder has extensive experience with the permit application process for work within wetlands, streams, and floodplains on a state and federal level, as well as the woodland conservation process on a County level. Before becoming a consultant, Ms. Snyder did research looking at the toxic and behavioral effects of harmful algal blooms on fish species.

