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To,
The Manager

Application for the Post of Any Suitable Job [GIS Engineer,

GIS Specialist, GIS Analyst, GIS Consultant, GIS Developer]

Through this letter I would like to introduce my professional profile and thereby I request you to kindly peruse it and forward your valuable opinion on whether I can find a suitable job in your esteemed organization.

I have 25 years of working experience in U.A.E, Qatar, Saudi Arabia and India as a **GIS Specialist** with BSc Computer Science and MSc Geo informatics Graduate, seeking a successful and rewarding career in the GIS mapping field.

I have a work Experience in **GIS & ArcGIS Portal / ArcGIS Online, Dashboard Creation, GIS Web Creation, Lidar, Remote sensing(image enhance and processing), Planimetry Data Capture, Photogrammetry, UAV data processing Etc.,**

I involved in the field of Onshore & Offshore Oil & Gas Pipeline, Water & Wastewater Utility (FS, TSE and SGW), Roads Infrastructure and Drone Projects with GIS Technology from reputed companies in India, U.A.E, Qatar and Saudi Arabia.

I have excellent skills in ArcGIS Pro 3.5, AutoCAD, Java Script, Html and CSS. I trust that my curriculum vitae shall detail you about my background qualifications and working experiences in different locations.

Attached herewith is my curriculum vita for your kind reference.

Thanking you in anticipation and hoping to hear a positive response from you.

Regards,
Vedamurthy. A

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Career Summary

- **Geospatial Expertise Across Domains**: Result-oriented GIS professional with **25+ years of experience** in **geospatial analysis, UAV data processing, Lidar, digital photogrammetry, image processing, remote sensing**, and projects related to **oil & gas, sewerage networks, road infrastructure**, and **drone-based surveys** (onshore & offshore).
- **Web GIS Management and Map Publishing**: Skilled in **managing ArcGIS Portal / ArcGIS Online**, and publishing GIS maps on **ArcGIS Online Geo Portal** for interactive and accessible web mapping solutions.
- **Advanced Esri Platform Proficiency**: Hands-on experience in implementing the full suite of **Esri ArcGIS software (v10.8 to Pro 3.5+)**, including **Desktop, Pro, Online, Enterprise, Portal, mobile apps**, and **ArcSDE/Geodatabase** for enterprise-level GIS solutions.
- **Web GIS Scripting and Automation**: Proficient in **ESRI JavaScript API, HTML, CSS**, and **Python** for automating GIS tasks, building web applications, and customizing GIS interfaces.
- **UAV Survey Operations**: Expertise in **UAV mission planning and DGPS (GCP) setup**, aerial and ground control data collection, followed by **data segregation and processing** for spatial analysis and 3D mapping.
- **Water Utility Mapping**: Experience in **GIS conversion of potable water transmission and distribution networks**, delivering GIS-compatible formats as per project specifications.
- **Server-Based GIS Data Management**: Skilled in **GIS data manipulation and interfacing**, uploading updates to central servers (FS, TSE, SGW), and providing **drainage network data** via interpretation and spatial analysis.
- **Road Infrastructure GIS Database Development**: Developed **GIS databases** for road infrastructure using **as-built, design, and survey drawings**, covering drainage, roads, street lighting, and traffic networks.
- **Oil & Gas Pipeline GIS Design**: Exposure to **oil and gas project specifications**, including **topographical surveys, pipeline crossing sessions, elevation profiling**, and generation of **alignment sheets** with chainage, ground profile, and wellhead details.
- **Offshore GIS and Survey Mapping**: Extensive experience with **offshore bathymetry, hydrographic, geophysical, and as-built survey drawings**, supporting maritime and oil platform developments.
- **GIS Data Conversion and Utility Mapping**: In-depth knowledge of **parcel mapping, utility mapping, and line mapping** conversion processes for base map creation and network analysis.
- **Multisoftware GIS Proficiency**: Familiar with industry-standard tools including **Esri ArcGIS, Bentley MicroStation, AutoCAD**, and other GIS/mapping software platforms for versatile project applications.
- **LiDAR Point Cloud Processing**: Skilled in **extracting 3D vector data** from **LiDAR point clouds**, and generating topographic datasets and elevation models for terrain analysis.
- **Aerial and Satellite Image Processing**: Knowledge in **digital image processing** of aerial photos and satellite imagery, with capability in **visual interpretation** for **feature extraction and classification**.

- **Quality Control and Procedure Development**: Proven ability to **develop procedures, QC standards, and project workflows** for photogrammetry, GIS, and mapping projects ensuring data accuracy and process efficiency.
- **Excellent Communication and Team Skills**: Strong **written, verbal, and interpersonal skills**, effective in **multicultural and multidisciplinary environments** across complex GIS project teams.
- **Regional and International Experience**: Successfully contributed to GIS projects across **U.A.E, Qatar, Saudi Arabia, and India**, with deep understanding of regional standards and workflows.

<u>**Technical Skills:**</u>

GIS Software	: Esri ArcGIS suite (Desktop, Pro, Online, Enterprise, Portal, mobile apps, ArcSDE/Geodatabase management), Arc GIS 10.8, Arc GIS Pro 3.5 (Arc Map, Arc Catalog, Arc Scene, Arc Toolbox, Image Server), ArcView3X, Arc/Info, Arc FM, Arc Objects, MapInfo, Arc GIS Collector, GIS Field survey, QGis, QField Survey.
BIM & Cad Software	: Rivet Architecture, Microstation-V8i, Auto Cad Map 2021 – 2D & 3D, 12D Model,
Drone Software	: Pix4DMapper, Agisoft Metashape,
Programming software	: Python 11.2, Express Js, Node Js, React Js, JavaScript, Bootstrap, Json, Xml.
AI	: ChatGPT(Open – AI), Deepseek,
RDBMS	: SQL Server, Postgre SQL, Oracle, Mongodb
DBMS	: Enterprises Geo Database, Mdb, Fgdb
Image Processing Software	: Icomp (Auto Sync, Image Equalizer), Ortho Vista, Prompt Server,
Surveying	: Leica Viva CS10 to CS15 GPS,
Others	: Photoshop, MS-Office (Word, Excel, Power Point),
O/S	: MS-Dos, Windows 10 & 11.

<u>**Employment Details**</u>
Serco Middle East – Dubai, UAE – (1 Year)
Duration: 26th December 2023 to 30th April 2025 worked as a GIS Specialist
Responsibilities:
- ArcGIS Portal / ArcGIS Online, Publishing Gis Maps in Online Geo Portal,
- Creating and Configuring Web GIS, GIS Apps, ArcGIS Pro software (Esri products)
- Implementation and expert use of the Esri Arc GIS suite of software version 10.8 and Arc Gis Pro 3.4 onward (Desktop, Pro, Online, Enterprise, Portal, mobile apps, Arc SDE/Geo database management, etc)
- Have a work experience with ESRI Java Script, Html, CSS and including python script writing for GIS.
- Creates, modifies, and maintains the utility assets in GIS, from approved site plan to as-built record drawing delivery.
- Processes field change requests to improve the integrity of the GIS data, ensuring spatial and attribute accuracy.
- preparation of Landscape and Irrigation checklists, and Implementation of GIS workflows,
- Georeferencing, Digitization, Data updates, Data conversion,
- Data mining, QA/QC activities, and Database maintenance.
- Develops, supports, and maintains GIS data and data management workflows.
- Compile and organize geospatial data from various sources, including satellite imagery, GPS, surveys and RCJY Sectors & Departments
- Develop and design maps and visualizations for presentations, reports, and decision-making purposes.
- Proficiency in GIS software and tools and up to date with the latest advancements in GIS technology.
- Data quality and integrity of spatial data through validation and data cleaning processes.
- Creates and maintains documentation of procedures utilized to complete projects.

Ashghal – DNPD - Dorsch Gruppe – Doha, Qatar
Duration: 1ˢᵗ May 2018 to 25ᵗʰ December 2023, worked as a GIS Specialist - (5 Years & 8 Months)
Responsibilities:

- ArcGIS Portal / ArcGIS Online, Publishing Gis Maps in Online Geo Portal,
- Creating and Configuring Web GIS, GIS Apps, ArcGIS Pro software (Esri products)
- Implementation and expert use of the Esri Arc GIS suite of software version 10.8 and Arc Gis Pro 3.4 onward (Desktop, Pro, Online, Enterprise, Portal, mobile apps, Arc SDE/Geo database management, etc)
- Have a work experience with ESRI Java Script, Html, CSS and including python script writing for GIS.
- Data sheets conversion to the GIS format and compare with as built and Third-Party Survey Drawings.
- QC Check the Third-Party Survey Report criteria or meets the requirements of the Ashghal Standards,
- Compare and check the Flow Direction & Invert Levels are matching with Data Sheet, As-Built drawings & Third-Party Survey Drawings.
- Ensure that the Standards & Specifications are matching with Ashghal Standards.
- Coordination with DNOM Professionals for feedbacks or Approvals.
- Participate in meeting and discussion to resolve the project GIS coordination discrepancies as per the QCS code, Relevant Standard, Project/design requirement etc.,
- Implementation of GIS system requirements in the Projects of Ashghal Standards, Quality Procedure, Policy, and Objectives,
- Preparing GIS project documents of Project Letter and GIS project plan, procedures, As-Built site work, Inspection check, review & verified survey report,
- Review and interpret maps manipulate and analyst or verify the compilation of digital land data prior to update into GIS Database
- Carry out joint inspection at site with contractor as per the Ashghal Standards,
- Preparing GIS report such as snags reports, final reports etc.,
- Coordinate with contractor on snags & rectification work to suit the GIS needs/requirement for the As-Built records and updating data according to the Ashghal Standards.

Eng Group, Sharjah- UAE.
Duration: 1ˢᵗ May 2016 to 30ᵗʰ April 2018 worked as a CAD GIS Engineer. – (2) Years
Responsibilities:

- Meeting with users to define data needs, project requirements, and required outputs to develop applications.
- Preparing Road infrastructure GIS database from As Built, Design and Survey Drawings. GIS data Includes Drainage, Roads, Street Lights and Traffic network details.
- Checking Cross section drawings like roads, bridges, pipe culverts, drain and CD works and Construction Embankment slope and Culverts, according to the GCC, Oman & Dubai Procedure.
- Preparing a Block for Direction Sign Board (Increasing /Decreasing), Chainage and RHS/LHS Direction, Checking QC for Survey Data (Polylines, Polygon & Points)
- Checking QC for Polylines, Run Topology and fix the error in Gis.
- Capturing Streetlight point feature on the Highway Median
- Checking the Carriage way, Verge, Left/Right shoulder, Median, centerline, RHS, LHS, Kerb Stone, Embankment, Carriageway, Road Lines, Road Level, Street Light Feeder Pillar, Street Light Cable, Street Light Duct, Street Light Pole, Road Marking Lines, Road Marking Polygon, following Dubai, Oman and GCC Manual.
- Traffic and safety control box, Detector Loop, Inspection Chamber, Signal Duct, Studs, Traffic Bollard, Traffic Sign, Traffic Signal Pole and Directional Sign.
- Analyze spatial data for geographic statistics to incorporate into documents and reports.

- Design and update database, applying additional knowledge of spatial feature representations.
- Enter new map data through use of a digitizer or by direct input of coordinate information using the principles of cartography including coordinate systems, longitude, latitude, elevation, topography, map scales.
- Analyze geographic relationships among varying types of data.
- Prepare metadata and other documentation.

RS GEOINFORMATICS SOLUTIONS PVT. LTD., Hyderabad - India
Duration: 1st Mar 2011 to 30thApril 2016 worked as a Cad & Gis Engineer – (5 Years)
Responsibilities:
Arc Gis (Arc Map, Arc Catalog, Arc, Tool Box)
Projection and Transformations
- Assigning the Projection System relevant to region,
- Geo referencing the given data with Geo referencing tools in ARC GIS

Data Editing and Compilation
- Digitization the data with reference to the raster, scanned images etc.,
- Editing the GIS data and adding & manipulating the Attribute data towards the requirements. Geo- Computations
- Working with Spread sheet (xls) by connection with Geodatabase through the joining the table tool existing in Arc GIS
- Data analysis and thematic map preparations

Handling Vector data and analysis
- Creating Buffer and Multi Ring Buffer using built in tools and speciation.
- Vector Data clipping and Raster data clipping
- Dissolve, Merge, Joint, Clipping, Union, Geo coding, Domain,
- Different methods of Labeling
- Changing the Visible of Labels (Layer based Visibility, Scale based Visibility, Layer based placement visibility, Placement Labels for Line, Polygon Placement Visibility.
- Creating Annotation,
- Symbology (Thematic map preparation)
- Select and Analysis the Data by Definition Query
- Selection by Attributes,
- Selection by Location.

Thematic map preparation
- Design the Map Layout (Legend, Scale Factor, Headlines and North Arrow)
- Performing Surface Analysis (Creation of Mosaic, Clipping, Hill shade, Slope, Contour, Dem, Water Flow Direction, Water Accumulation)
- Conversion of the Contour to Kml file

Auto Cad
- Creation of different layers depend on the character,
- Digitization the data's
- Find out & correct the errors in the layer,
- Process the Topology Cleanup,
- Export the auto cad layer file as Esri Shape file,

Run Topology in Arc Map
- Import Cad Layer file as a shape file in Arc Map,
- Run the Topology Cleanup,
- Find out the topology error and edit,

Lidar
- Capturing 3DLaser Point Cloud data using AutoCAD Civil 3D 2015.
- Preparing 3D vector maps from a 3D Laser Point Cloud data using AutoCAD Civil 3D 2015 and MicroStationV8.1.
- Address the data quality assurance and quality control with the surveying teams in order to improve the geospatial data quality before, during and after Vectorization.
- Set up the necessary quality control procedure and all the necessary check and balances to

ensure the data quality meets project specifications.

UAV data processing

- UAV Mission Planning and DGPS Planning (GCP) of project sites.
- Collect the Aerial & GCP data of the project site then segregate the data for Processing.
- Creating 2D & 3D Maps using Photogrammetry software and producing required outputs of the project site (DEM, DTM, Ortho Map).
- Analyzing spatial data through using the GIS software like ArcGIS, QGIS.
- Designing digital maps with geographic data and other sources.
- Preparing Topography maps based on the drone survey.
- Developed, tested and implemented the Quality Assurance (QA) and Quality Control (QC) Process to ensure GIS data accuracy and Integrity.
- Good Knowledge in Utility attributes and Land Use / Land Cover e.g., Manhole, Street lights, Zebra Cross, Roads EB, etc.
- Producing reports on geographic data utilizing data visualizations.
- Managing digital library of geographic maps in various file formats.

Fugro Maps, Sharjah – U.A.E
Duration: 1st Sep 1999 to 15th Jan 2011 worked as Gis Photogrammetric Technician
- **(11 ½ Years)**
Responsibilities:

- **Oil & Gas Pipeline Project Specifications:**
- **Topographical Survey:** Preparing specifications for topographical surveys in oil and gas pipeline projects.
- **Pipeline Crossing and Elevation Details:** Documenting pipeline crossings and elevation information.
- **Pipeline Route Corridor Details:** Defining the corridor of the pipeline route.
- **Underground Services Crossing Details:** Managing information on crossings with underground services.
- **Alignment Sheets:** Creating ground profile and chainage details.
- **Generating Contours and DEM Points:** Producing contour lines and digital elevation model (DEM) points.
- **Wellhead Details Drawings:** Creating drawings with details about wellheads.
- **Offshore Bathymetry Survey Drawings:** Preparing drawings related to offshore bathymetry surveys.
- **Geophysical Survey (Hydrographic Survey) Drawings:** Managing geophysical and hydrographic survey drawings.
- **Offshore As-Built Survey Drawing:** Documenting as-built information for offshore projects.
- **Processing of Aerial & Satellite Images:**
- **Image Enhancement:** Enhancing the quality and clarity of aerial and satellite images.
- **Geo-referencing:** Assigning spatial references to images for accurate mapping.
- **Mosaicking:** Combining multiple images into a single, seamless mosaic.
- **Ortho Rectification:** Correcting image distortions to create orthophotos.
- **Resolution Enhancement:** Improving image resolution when possible.
- **Data Merging:** Integrating data from various sources and types.
- **Digital Terrain Model (DTM) and TIN Data Capture:** Capturing terrain and elevation data in 3D photogrammetry.
- **Data Acquisition and Manipulation:**
- **Spatial Data Acquisition:** Collecting spatial information from diverse sources.
- **Data Refinement:** Improving the quality and accuracy of data.
- **Data Merging:** Combining data from different sources, such as aerial imagery and satellite data.
- **Digitization:**
- **Planimetry Digitization:** Digitizing planimetric details using ortho images.

- **Structure and Feature Digitization:** Digitizing structures, features, and road centerlines from satellite images.
- **Map Feature Digitization:** Digitizing features from scanned maps, including utility, cadastral, contours, and break lines.
- **Editing and Quality Improvement:**
- **Vector Data Editing:** Editing and enhancing vector data, ensuring data quality.
- **Quality Assurance:** Implementing quality control procedures to ensure accurate and reliable data.
- **Quality Checking and Assurance:** Ensuring the final deliverables meet quality standards and project requirements.

Odyssey Computers, Pattukkottai, Tamil Nadu, India
Duration: 1ˢᵗ June 1994 – 31st July 1999 worked as a Programming Faculty – (5 Years)
Responsibilities:
- Teach the programming Languages & Microsoft Products
- Visual Basic 5,
- Ms_Office (Ms_Word, Excel, Power Point)

Major Projects:
- Establishment of an Asset Management & Operational Baseline project for Royal Commission Jubail, Kingdom of Saudi Arabia
- RCJ EAMS Data Mapping of GIS Urban Planning Dept project for Royal Commission Jubail, Kingdom of Saudi Arabia (PARCEL MAPPING PROJECT)
- Project - C851/4 FPS - Design & Build FIFA Readiness Project 4 –Surface Ground Water & Foul Sewer Network at Al Sadd and Al Nasr
- Doha and Rayyan Sewerage Scheme Miscellaneous House connection works
- Demolition and Utilities works "A" Ring Road
- Construction of south site wide infrastructure & Ec Landscaping works package Qatar Foundation
- Topographical mapping and Geodatabase (GDB) creation – Centre for GIS, Qatar
- Riyadh Metro Railway - BACSTopo, Riyadh Metro Project, Kingdom of Saudi Arabia
- Merowe irrigation project – Republic of Sudan
- Unified Digital Map - *460000*Km2 – The presidential office, Republic of Yemen
- Unified Digital Map - The National Consulting bureau of Libya
- Digital Elevation Model and Ortho map – Yanbu, (RGME) Rashid Geotechnical & Material, KSA
- Digital ortho & Topographical mapping –Survey and Land Registration Bureau (SLRB) Bahrain
- Digital Elevation Model and Ortho photo for LPIS – Republic of Estonia
- Union Railway - Abu Dhabi Municipality
- Metro Railway - Abu Dhabi Municipality
- Country Base Map for U.A.E - Military Survey Department (MSD), Abu Dhabi, UAE
- Dualization Of Bid Bid - Sur Road - Ministry of Transport and Communications, Sultanate of Oman
- Baitinah Express Way - Ministry of Transport and Communications, Sultanate of Oman
- **ADCO / TR-Engineering& CCC (SHAH / SAHIL) Field development**
- **Petrofac International ltd. (EPC for ASAB FFD Project-ADCO). ASAB to SAHIL & SAHA Full fields development project survey control verification**
- **International Bechtel Co. Ltd., GASCO OGD-III & AGD-II Project, Topographic & Soil**
  Asab, Bab, Buhasa ruwais modification project
- **Bida al Qemzan Field development project. Well site topographical survey.**
- **GASCO 12" NGL Habshan-Bab, 30" OAG Pipeline, NPCC, Abu Dhabi**

Educational Qualifications

MSc, Geo-informatics (Pursuing), Annamalai University, Chidambaram, Tamil Nadu, India
Specialization: Earth Science, Arial Photography & Photogrammetry, Earth Resources & Environmental Hazards, Satellite Remote Sensing, Digital Image Processing, Cartography, Remote Sensing, (GIS) Geographical Information System, Surveying and GPS.

BSC, Computer Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India

Diploma in Remote Sensing & GIS Technology, Bharat Sevak Samaj, New Delhi India

Workshops and Training
1. **Diploma in Advanced Auto Cad from Cad Centre in Pattukkottai, Tamil Nadu**
2. **Microsoft Visual Studio Dot Net – including (C#, Asp.Net, ADO.Net, Silver light And Ajax) Training from Accord Info Matrix Institute in Chennai, Tamil Nadu**
3. **Certificate course for Python Programming from Livewire in Pattukkottai, Tamil Nadu**
4. **Certificate course for BIM (Rivet Architecture) Cad Centre in Pattukkottai, Tamil Nadu**
5. **Java script Arcgis Web Map Application Developer Course from Ezeal Tech, Bangalore, India,**
6. **Arcpy Python Api Developer Course from Ezeal Tech Bangalore, Karnataka, India**
7. **Higher Grade certificate in English type writing from technical education, Tamil Nadu**

Personal Details
1. Name   : A. VEDAMURTHY
2. Date of Birth   : 26th December 1969.
3. Nationality   : Indian
4. Sex   : Male
5. Marital Status   : Married
6. Language Capability   : English, Hindi, Tamil, Malayalam & Some of Arabic
7. **Having valid UAE driving license from Sharjah – U.A.E.**
8. **Having valid Qatar driving license from Doha - Qatar.**

DECLARATION
I hereby certify that the foregoing information is correct to the best of my knowledge and belief. I have not suppressed any material or information in the above statement.

Place: Dubai, UAE.
Date: 06.07.2025   **(A. VEDAMURTHY)**