VANSHIKA PRATAP SINGH RAJPUT

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Summary

Dedicated and experienced GIS Professional with proven success managing state level projects as a part of a team. Seeking an opportunity to use my experience to serve GIS Industry.

Technical Skill Highlights

Digital Image Processing Software

- MATLAB
- Basics of AutoCAD
- Pix4D Mapper, Agisoft Photoscan Professional
- ArcGIS, QGIS, GRASS

- SNAP, NEST and ENVI
- eCognition
- ERDAS Imagine
- Global Mapper

Computer Skills

- C, C++
- Python
- Java, Advanced JAVA
- .Net Framework, Visual Basic
- MySQL, Oracle 10g

Others

- Photogrammetry
- Google Earth

Experience

- Senior Executive at Genesys International Corporation Ltd, Jaipur (12th April, 2021-present)
- GIS Expert – 6 January, 2021-31 March 2021
  Sadhan Engineers Pvt. Ltd., Delhi
- Image Processing Expert – 3 June, 2019 to 31 December, 2020
  Watershed Development and Soil Conservation Department, Jaipur Commessionerate (recruited through Quantum Asia Pvt. Ltd.)
  - Processing of very High-Resolution UAV data.
  - Developed spatial models for Watershed Structure Planning.
  - Monitoring of Watershed Structures using field data.
  - Management and Planning of Watershed Structures through web-portal.

Education

- Master of Technology: Remote Sensing – 2019, Banasthali Vidyapith, Rajasthan
- Master of Science: Computer Science – 2015, Banasthali Vidyapith, Rajasthan
- Bachelor of Science: Computer Science – 2013, MJP Rohillkhand University, U.P.

Projects

- Master of Technology (Remote Sensing)
  Convergence of UAV and Satellite Remote Sensing in Watershed Planning at RRSC-W, NRSC/ISRO, Jodhpur in one year (May 2018 – May 2019) under the supervision of Mr. Suparn Pathak, Scientist/Engineer 'SG'.
  Abstract: The use of Unmanned Aerial Vehicles (UAV) offers almost new potentialities with high detail value, as compared to satellite and traditional survey techniques. Satellite technology has been used traditionally in watershed planning and management suffer from precision when it comes to structure planning in action plan generation. The watershed programme is primarily a land based programme, having objective to enhance agricultural productivity through increased in-situ moisture conservation and protective irrigation for socio-economic development of rural people.

  o Software Used   Agisoft PhotoScan Professional, Pix4D Mapper, ArcGIS, GRASS GIS
  o Duration   12 months (May 2018- May 2019)

- Master of Science (Computer Science)
  Major Project: AIMS (Accident & Incident Management System) at MultiSoft Systems, Noida in 6 months (Jan – May 2015)
  Minor Project: BVmail (Banasthali Vidyapith Mail System) at Banasthali Vidyapith in 4 months (Jan – April 2014)

Professional Training

- Certificate of completion by **NASA's Applied Remote Training Program (ARSET) on Forest Mapping and Monitoring with SAR Data** held on May 12,14,19 & 21, 2020.
- Certificate of participation on **Data Analytics with Python held between** 4 - 8 May, 2020 by Forsk Coding School.
- Certificate of participation on **Python for Data Sciences** held between 18-25 April, 2020 by Forsk Coding School.
- Computer application course on **Java Programming and Visual Basic** conducted by Disha Institute of Science and Technology during 1 – 15 June, 2011.

Area of Interests

- UAV, LiDAR Remote Sensing
- Digital Image Processing
- Microwave Remote Sensing

Achievements

- **Gold Medal in Master of Technology (Remote Sensing),** 2019, Banasthali Vidyapith.
- First runner up in model exhibition of departmental fest "COSMOS 2017", Banasthali Vidyapith held on 17-19 September, 2017.
- Worked as Discipline & Invitation Committee Coordinator of department fest "COSMOS 2017", Banasthali Vidyapith, held on 17-19 September, 2017.