**CURRICULUMVITAE**

**Dr. RAMAMOHANA RAO PEDADA**

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# Career Objective

Geographic Information Systems professional with over **Nine years** experience applying **GIS Scientist, Engineer and Teaching** and technologies for improved information management and decision support worldwide. Expertise includes advanced satellite image processing, land cover mapping and related accuracy assessment; time-series analysis; land use optimization and allocation model design; participatory environmental risk assessment; spatial decision support model design; web-based mapping application deployment; program reporting, monitoring, and evaluation.

# Professional Experience

* **Ceinsys Tech Ltd** as Asst. Manager in Geospatial Solutions, Office based at Vijayawada (Client Location, APSDMA) in this period 18th September 2019 to till date.
* **Andhra Pradesh Capital Region Development Authority (APCRDA)** as GIS & Remote sensing Assistant in Planning division in this period 10th September 2018 to 9th September 2019.
* **Director of Town and Country Planning (DTCP), Andhra Pradesh** as GIS Consultant in this period 17th May to 24th August 2018.
* **ANDHRA PRADESH STATE DISASTER MANAGEMENT AUTHORITY (APSDMA)**, (Revenue Dept., Govt. of AP) as GIS Expert in this period 20th March 2017 to 08th May 2018.
* **ANDHRA PRADESH SPACE APPLICATIONS CENTRE (APSAC)**, (Planning Dept., Govt. of AP) as Team Leader in this period 1st October 2015 to 20th March 2017.
* Teaching experience **Remote Sensing and GIS Lab** in **Dept. of Geography**, Andhra University, Visakhapatnam, A.P, Period July 2010 to July 2013.
* **REMOTE SENSING INSTRUMENTS (P) LTD (RSI)**, as GIS Engineer in this period 3rd June 2007 to 10thApril 2010.

# Educational Qualifications

* **Ph.D in Geography** (Micro Level Planning and Rural Development) from Andhra University, Visakhapatnam, A.P (Award 10th April, 2014).
* **M.Tech (Geo-informatics and Surveying Technology)** from JNTU, Hyderabad, T.S, with 80.06% (2015).
* **M.Sc Geography** with GIS & Remote Sensing, Andhra University, Visakhapatnam, India, with 76.2% (2007).
* **B.Sc** (Mathematics, Physics, Geography) from Andhra University, Visakhapatnam, India, With 69.99% (2004).
* **P.G. Diploma in Town and Country Planning** from Osmania University, Hyderabad, A.P, with 65% (2014).
* **P.G. Diploma in Environmental Studies** from Andhra University, Visakhapatnam, A.P, with 65% (2013).
* **P.G. Diploma in Geographical Cartography** from Osmania University, Hyderabad, A.P, with 76.2% (2009).

# Skill Set

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| Platforms | : Windows XP/NT/2000/7/8. |
| GIS software | : ArcGIS Desktop, ArcGIS Online, Arc GIS Enterprise,  ArcGIS Pro, QGIS. |
| Image Processing S/W | : ERDAS Imagine, IGIS (ISRO). |
| CAD Packages | : AutoCAD MAP, Cadoverlay. |
| Packages | : Microsoft Office. |

***Projects***

## Ceinsys Tech Ltd (Andhra Pradesh Disaster Recovery Project)

## Andhra Pradesh State Disaster Management Authority (APSDMA).

## Role of Ceinsys Project associate.

## Develop an overall quality plan to define the project’s overall quality strategy.

## Monitoring and implementation of quality.

## Review phase deliverable’s.

## Verify and validate all project-related software items.

## Review all test plans and packages.

## Maintain a high level of quality awareness.

## Andhra Pradesh Capital Region Development Authority (APCRDA)

The Government has enacted Andhra Pradesh Capital Region development Authority Act.2014 for the declaration of the new capital area for the state of the Andhra Pradesh and establishment of the Andhra Pradesh capital region development authority and formulated the AP Capital city LPS Rules, 2015.

* Preparation of Capital city Master Plan;
* Capital city LPS plots planning and Distribution Maps through GIS Environment;
* Prepare Capital Region zonal development plans and Infrastructure GIS maps.

## Directorate of Town and Country Planning, Andhra Pradesh.

The Directorate of Town and Country Planning has two distinct functions, one under urban front and the other on the rural front. In respect of urban area particularly the Municipal towns are planned and regulated under the provisions of APTP Act,1920.

* Preparation of General Town Planning Schemes (Master Plans),
* Preparation of Indicative Land Use Plans (Mandal Master Plans),
* Technical Approval of Layouts, Technical Approval of Buildings Plans. (Group Housing), Commercial complexes,
* Preparation and approval of type designs for community and public buildings,
* Amrut city plan application in ESRI Application through ArcGIS Server.

## Andhra Pradesh State Disaster Management Authority (APSDMA), (Vijayawada).

Andhra Pradesh State Disaster Management Authority (APSDMA) is the apex body in the state for Disaster Management which was constituted in 2007 as per the provisions of the Disaster Management Act, 2005 and Andhra Pradesh State Disaster Management Rules, 2007.

* Disaster Decision support System Operations and Service Integrations.

## Andhra Pradesh State Command and Control Centre (Vijayawada)

CORE Dashboards is designed and developed to address wide range of objectives & monitoring the strategy of Government of Andhra Pradesh which can check on department's activities in order to achieve service-level targets.

* CM Core DASH board represented to Tabular data to spatial data in GIS environment.
* Vardah cyclone alert maps, affected mandal maps in GIS environment.
* Department’s activities display in ArcGIS Online dash board.

## Hudhud Cyclone (2014), Andhra Pradesh

The aim of the Project is to assess the damages due to fallen trees, electric polls, house roofs, cell towers, area of plantations, etc. This work is carried out at National Remote Sensing Centre (NRSC), Hyderabad under the guidance of Disaster Management Support group. The methodology adopted to estimate the damages through on screen interpretation near real time aerial photographs and extent of damages are calculated and reported to Govt. of AP on daily basis.

## Association:

* To use GIS, GPS and remote sensing technologies to spot the damage caused by Cycle Hudhud and put them on a map. This would enable the government to have the data on damages on the map.

## Space Based Information System for Decentralized Planning (SISDP) (A.P).

The goal of the project is to develop ICT enabled geospatial platform using space based EO systems and engaging local bodies for planning and carrying out area developmental activities in a decentralized, speedy and transparent manner. The major objectives are: Development of software tools and utilities (including web based GIS applications and standalone) for providing multipurpose user driven applications for speedy, accurate and transparent decision making for district planning. Capacity building in state departments along with training of manpower and capability for spatial data analysis, which will maintain, update & manage database for decentralized planning. Prepared mainly from four different sources (1) High resolution satellite images, (2) Village Cadastral maps, (3) User departments data, (4) Existing resource GIS layers / databases generated by central / state centers. All the thematic layers will be created on 1:10,000 scale using ortho- rectified high resolution satellite images (Cartosat + LISS 4 Mx fused).

## Association:

* Quality Checking in thematic layers (Land use, Infra, Drainage, Cadastral);
* District edge matching and organize Field visit Planning.

## Hyderabad Urban Development Authority Project (HUDA).

Hyderabad Urban Development Authority has proposed to Master Plan for Hyderabad city. The project aims Urban Land use, Infrastructure and Drainage data base on 1:10,000 scale for the year 2008 using high resolution satellite data and Toposheets.

## Association :

* Geometric rectification of SOI toposheets on 1:50000 scale;
* Ortho- rectification for high resolution satellite data;
* On screen interpretation urban land use, Infrastructure and Drainage network.

## National land use land cover mapping using multi - temporal satellite data (AP).

Recognizing the need for sustainable utilization of natural resources, the Department of Space, Govt. of India under the National Natural Resource Management System (NNRMS) launched the NR Census Program to take inventory of all natural resources at regular intervals using space based remote sensing techniques for whole country. Under this program, National Land Use Land Cover Mapping Using Multi-temporal Satellite Data has been initiated. This project aims at generating Land Use land Cover data base on 1:50000 scale for the year 2005-2006 using three seasons (Kharif, Rabi and Zaid) of IRS P6 LISS III satellite data. The project outputs include digital data base creation; generate district level maps, reports and the changes over the previous Census cycle.

## Association :

* Geometric rectification of SOI toposheets on 1:50000 scale
* Image to image registration using the IRS satellite data in raw format taking geo-coded mosaic image of district wise toposheets for reference co- ordinates.
* Warangal Land use Land cover mapping using multi - temporal satellite data.
* On screen interpretation and Geodatabase creation.

## Coastal Zone management - GOA (GOA Coastal Zone management Sponsored project)

The Goa coastal zone management has proposed to develop coastal zone management plans for coastal stretches of Goa. The objective of the study is to use high resolution satellite data to map built-up area using DGPS and linking of socio - economic data house wise and Coastal Land use.

## Association:

* Geometric rectification of high resolution satellite data.
* Collecting GCP’s through DGPS
* Spatial linking of socio – economic data and Creating Geo-database and updating attribute information.
* Preparing final output in the form of map layouts with 1:25,000 scale.

# Book Publication

1. **Ramamohana Rao, P** and Suneetha, P (2015). Micro Level Planning and Rural Development through Remote Sensing and GIS. Lambert Academic Publishing (ISSN: 978-3-659-74177-7, Published: 30th August, 2015).
2. **Ramamohana Rao, P** and Suneetha, P (2014). Coastal Zone Management using Remote Sensing and GIS - A case Study of GOA. Lambert Academic Publishing (ISSN: 978-3-659-51532-3, Published: 20th May, 2014).

# Research Publication

1. **Ramamohana Rao, P** and Suneetha, P (2018). Village Information System Through Remote Sensing and GIS Techniques, IJRAR- International Journal of Research and Analytical Reviews, Vol.05, Issue.04, pp.146-151, eISSN: 2348-1269, Print ISSN: 2349-5138 (Cosmos IF 4.236) (UGC No: 43602).
2. **Ramamohana Rao, P** and Suneetha, P (2018). Land Use / Land Cover Change Detection Using Remote Sensing and GIS, A Case Study Of Srikakulam District, Andhra Pradesh, India. Global International Refereed Research Journal (Global, UGC Approved), Vol.10, Issue2, pp.189-197, ISSN: 2249-2054.
3. **Ramamohana Rao, P**., Suneetha, P and Sachi Devi, S (2016). Crop Concentration through Geospatial Analysis: A Case Study of Srikakulam district, Andhra Pradesh, India. International Journal of Innovative Research and Advanced Studies (IJIRAS), Vol.3, Issue.13, pp.222-226, ISSN 2394- 4404.
4. **Ramamohana Rao, P**., Hathiram, G., Bhakta Thukaram., G and Anand Kumar., S (2015). Land use and Land Cover Analysis Using Remote Sensing and GIS, A Case Study of Khammam District, Telengana State, India. International Journal of Recent Scientific Research, Vol. 6, Issue, 7, pp.5465- 5468, ISSN: 0976-3031 (SJIF-5.114) (UGC No: 46629).
5. **Ramamohana Rao, P** and Suneetha, P (2014). Identifying Ground water Potential zones through Geospatial technologies. Seminar Proceedings, Dept. of Geography, SK University, Anantapur, AP.
6. **Ramamohana Rao, P** and Suneetha, P (2013). Coastal Zone Management using Remote Sensing and GIS - A case Study of GOA. International Journal of Current Research, Vol.5, Issue.3, pp.718-725, ISSN 0975-833X (IF-1.125).
7. **Ramamohana Rao, P** and Suneetha, P (2012). Land use Modeling for Sustainable Rural Development. International Journal of Science, Environment and Technology, Vol.1, No.5, pp.519-532, ISSN 2278-3687.

# Training courses and Conference/Seminar/workshop papers

## Paper Presented in Seminars:

* Identifying Ground water Potential zones through Geospatial technologies in “National Seminar on Land and Water for all and Forever: Spatial Challenges and Geospatial Technologies”, 23-25 February, 2013, Anantapur.
* Land use modeling for sustainable development in “International Conference on Spatial Technologies for Rural Development”, 05-07 January, 2012, Hyderabad.
* Climatic effects of Urbanization with reference to Visakhapatnam in “National seminar on Sustainability of cities: Environmental Challenges”, 26-27 September, 2011, Visakhapatnam.
* Dynamics of Urban sprawl in Visakhapatnam in “National seminar on Sustainability of cities: Environmental Challenges”, 26-27 September, 2011, Visakhapatnam.
* Morphometry and Watershed Development: A GIS and Remote Sensing Approach in “International Symposium on Desalination, Drinking water quality in rural areas, drought: mitigation and water reuse”, 24-25 March, 2011, Vizianagarm.
* Coastal Zone Management using Remote Sensing and GIS- A Case Study of GOA in “National seminar on Trends and Prospects of Geo-informatics in Spatial Planning”, 12-13 March, 2009, Hyderabad.

## Participated in Seminars/workshops/Trainings:

* One day work shop on Innovative Construction Materials (ICM-2013) on 28th September, 2013, Dept. of Civil Engineering, KLR Engineering College, Paloncha, Khammam.
* UGC sponsored Orientation and Teacher Training Programme on Remote Sensing and GIS, 17-18 September, 2010, DNR College, Bhimavaram, West Godavari, Andhra Pradesh.
* GIS Training Program on Introduction to Arc GIS I, 6-7 September, 2010, ESRI India, New Delhi.
* National Seminar on Monsoon and Climate Change, 30th June, 2010, Dept. of Meteorology and Oceanography, Andhra University, Visakhapatnam.
* Work shop on Sustainability of Ground water Resources and its Indicators, 28-29 June, 2010, Dept. of Geophysics, Andhra University, Visakhapatnam.
* Familiarization of Remote Sensing and GIS techniques for Natural Resources and Environment Management, 28-29 March 2009, under Technical Education Quality Improvement Progaramme, Dept. of Geo-Engineering, Andhra University, Visakhapatnam.

# Personal Profile

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| Father’s Name | :P. Satyanarana |
| Date of Birth | :20-08-1984 |
| **Pass Port No** | :**H3260911** |
| Known Languages | : English, Telugu and Hindi |
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**(RAMAMOHANA RAO PEDADA)**