

SUMAN KUMAR

Summary

Nationality (Present/at Birth)	India/India
Gender	Male
Notice Period (days)	31

Personal Information

First Name	Suman
Middle Name(s)	
Last Name	Kumar
Maiden Name	
Gender	Male
Date of Birth	18-Feb-1987
Nationality at Birth	India
Present Nationality	India
UN Index Number	
Are you a UN retiree and receive UN Pension?	No
Limitations on your ability to perform in your prospective field of work?	
Limitations on your ability to travel?	
Are any of your close relatives or spouse employed by the United Nations or one of its specialised agencies?	No
Have you ever been arrested, indicted, or summoned into court as a defendant in a criminal proceeding, or convicted, fined, or imprisoned for the violation of	No

any law (excluding minor traffic violations)?

Contact Details

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Experience (In reverse chronological order)

Urban Expansion Observatory - Jan-2015 to Present

Functional Title	Project Lead
Area of Work	Urbanization, Urban Expansion, Remote sensing
United Nations/UNOPS?	No/No
Annual Salary at Start (\$US)	9300
Annual Salary at End (\$US)	14719
Number of Employees Supervised	26
Country	India
Description of Duties	<p>1. Projects on Atlas for Urban Expansion, Atlas for Colombian Cities, Growth Projection for 20 of the 100 Resilient Cities, Densification vs Expansion - Acquisition of spatial data and demographic data for urban expansion area for more than 420 global cities (including cities in several developing and under-developing nations) from multiple open sources platform. Compilation and processing of data collected. Classification of urban areas from Landsat satellite images and developing the methodology for extracting urban patterns and layouts from high-resolution satellite imageries. Identification, extraction, and analysis (both qualitative and quantitative) of indicators to assess the condition of urban expansion areas with respect to but not limited to – - trends of urban growth in the cities for different periods using Remote Sensing and calculation of their metrics such as (infill, extension, leapfrog, fragmentation) - connectivity and accessibility, built environment, land use etc.; - Development of methodology and estimation of population share and population density in the core area</p>

and expansion areas of cities in different time periods using Landsat data, Worldpop in GIS environment. Growth Projections for Population and Urban Extension using statistical analysis. Development of scripts in Python and R for automating processes involved in - the study of urban expansion, identifying and calculating the different urban layout metrics and carry out city growth projections in the geospatial environment. Managing a team of 26 Image Analysts to digitize the footprints of the buildings, interpret their height, and the type and calculate decomposing density parameters. 2. Review of economic development in urban expansion areas of few Indian cities – Identifying and reviewing indicators impacting economic development over time like night light, connectivity, socio-economic factors etc; Activities involved processing and analysing GHSL built and population data, luminosity data etc. and Development of Interactive Web Maps. 3 Climate Smart City, Grenada – Activities included mapping and study of infrastructure routes, settlement expansion, land utilisation, drainage pattern, land property record etc; Creation of very high-resolution elevation model with the help of LIDAR survey data. Provided inputs to the formulation of strategies for sustainable development in Grenada, keeping in view the impact of its vulnerable condition due to natural calamities such as rising sea level, flooding and landslides.

Major Achievements

Successful launch of Atlas of Urban expansion in UN Habitat III held in Ecuador in October 2016. Success of Atlas of Urban Expansion for 200 global cities encouraged countries like Colombia, Myanmar, Ethiopia, Brazil and other Latin American cities to carry out similar studies. Atlas prepared for Colombian cities is used by respective government to plan their cities to make room for the city expansion. The usefulness of the Atlas of urban expansion has been acknowledged and its data has been widely used by several researchers and academia in various studies. Had the opportunity to successfully manage, supervise and assist 26 Image Analysts for the preparation of the Atlas.

Reason for Leaving

Supervisor Name

Mr. Patrick Lamson-Hall

Supervisor Email

Association of Municipalities and Development Authorities (AMDA), New Delhi - Jun-2011 to Feb-2012

Functional Title	Planning Officer
Area of Work	NGO, Electoral ward planning
United Nations/UNOPS?	No/No
Annual Salary at Start (\$US)	0
Annual Salary at End (\$US)	0
Number of Employees Supervised	4
Country	India
Description of Duties	Preparation of Pilot Development Plans for the Municipal Electoral Wards of Delhi – Preparation of Development Plans for Electoral Wards located in proximity to the urban extent of the city. Activities included base map preparation, conducting primary surveys, secondary data collection; analysis of land use, physical and social infrastructure, transport network etc; mapping and statistical analysis of demography, land use, physical and social infrastructure; checking conformity and permissibility of uses/activities in the wards with respect to master plan land use of the city; preparation of reports; mapping of proposals; the invitation of objections/suggestions and subsequent incorporation of the same in the draft plan; stakeholder consultation; working closely with local government and other line departments.
Major Achievements	Developed an understanding of the need and usefulness of the top-down hierarchy of development plans ranging from city planning to zonal planning to local area planning. Developed insight on how to minimise the gaps between the different hierarchy of plans. Developed the skill to work and coordinate with multiple departments.
Reason for Leaving	To Join the Masters
Supervisor Name	Mr. M.L.Chotani
Supervisor Email	

CADCON CONSULTANTS PVT. LTD., JAIPUR - Jul-2010 to May-2011

Functional Title	Project Coordinator
Area of Work	Consultancy

United Nations/UNOPS?	No/No
Annual Salary at Start (\$US)	0
Annual Salary at End (\$US)	0
Number of Employees Supervised	3
Country	India
Description of Duties	Preparation of Master Plans for 3 towns and Village Development Plans for 3 districts in Rajasthan, India - Activities included preparation of the base map and land use plan, conducting primary surveys for land use and transportation,collecting secondary data, analysis of the then existing ground situations and formulating sustainable plans. Worked in close association with local government, urban local bodies, line departments Identify, Verify and resolve the shortcomings or gaps in development and formulate strategies to meet the same. Integrated Housing and Slum Development Program for Sumerpur, Pindwara in Rajasthan, India Mapping of physical elements in the slum,conducting a detailed household survey and drafting proposals for slum development using reduced space standards.
Major Achievements	Successful preparation of Master Plans for towns with a regional approach (Urban area delineation) and Village Development Plans. Developed the skill to work and coordinate with multiple departments like Town and Country Planning Office, Village Panchayat, Municipalities and other Urban Local Bodies. Developed insight for the different approach required for planning of urban area and rural area.
Reason for Leaving	Got an opportunity for working on local area plans in AMDA, New delhi.
Supervisor Name	Mr. Vinod Mehta
Supervisor Email	

Education

From - Until	Year	Institution	Title	Level	Subject	Country
2012 - 2016	2014	Indian Institute of Technology, Roorkee	Master in Urban Rural Planning	Masters degree or equivalent	Architecture & Town Planning	India

2006 - 2010	2010	School of Planning & Architecture, New Delhi	Bachelor in Physical Planning	Bachelors degree or equivalent	Architecture & Town Planning	India
2001 - 2003	2003	RKCK college, Sikti	Intermediate in Scince	Secondary School Diploma	Science	India
1999 - 2001	2001	Govt. High School, Bardaha	10th	High School Diploma	Science	India

Skills

SkillSet	Skill	Years
Information Technology	AutoCAD	12
Information Technology	Mapping Software	8
Information Technology	Geographic Information System (GIS)	6
Information Technology	Python	1
Environment	Experience with national urban policies	2
Project Management	Quality Control	5
Executive/Management	Team management	6
Executive/Management	Senior-Level Advisory	3
Contextual Skills	International relations	5
Contextual Skills	Experience working with local governments	2
Data Analysis and Interpretation	Numerical/Statistical analysis	10

Languages

Language	Read	Write	Speak
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Hindi	Fluent	Fluent	Fluent
English	Fluent	Intermediate	Fluent

Attachments

No attachments found.
