

ABHINAV SINGHANIA

Field Support Technician, Laser Operator and Data Processor
NSF National Center for Airborne Laser Mapping (NCALM)
Geosensing Systems Engineering
Department of Civil & Environmental Engineering
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EDUCATION

MS (2007), Geosensing Systems Engineering, uf
BS in Civil Engineering (2005), Punjab Engg. College, Punjab Univ., Chandigarh
(INDIA)

EXPERIENCE

Adjunct Engineer In (2007 - present), NCALM, University of Florida
Research Assistant (2006 - 07), NCALM University of Florida

TECHNICAL SKILLS

Operation of GEMINI, airborne laser sensor manufactured by OPTECH
Operation of ILRIS-3D and MTLs(Mobile Terrestrial Laser System), ground based
LIDAR instrument and processing its data using QTModer and Polyworks
Flight planning for airborne LIDAR surveys
Static and Kinematic GPS surveying and GPS data processing
QA/QC of LIDAR and GPS data during the survey, performing calibration and quality
checks of the LIDAR data at the pre-processing stage
Filtering of LIDAR point cloud in TerraScan and creating bare earth Digital Elevation
Models

PROJECTS

Short term high resolution monitoring of beach erosion using terrestrial LIDAR
Aerial survey of 2000 Sq Km for UNAVCO covering San Andreas and associated
tectonic faults
Ortho-rectification and creation of mosaics of Aerial photographs in Terraphoto using
LIDAR data
3-D Building Extraction from LIDAR data in ArcGIS
Road extraction in urban areas from LIDAR data