



**RAMESH B**  
 M.Tech. Geomatics Engineering  
 Registration No:  
 M.Tech./GE/1520012/2017  
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**Indian Institute of Technology, Roorkee**  
**Indian Institute of Technology, Madras**

**Area(s) of Interest:** Architectural design, Heritage conservation, Documentation, Geomatics, Photogrammetry, Urban Planning and Infrastructure Management.

Educational Qualifications	Year	Board/Institution	CGPA* / %
<b>M.Tech:</b> Geo-informatics, Civil Engineering	2017	Indian Institute of Technology, Roorkee	8.143
<b>B.Arch:</b> Architecture and Planning	2015	Meenakshi College of Engineering, Chennai	7.73
Twelfth	2010	Sri Krishnaswamy Matric Hr. Sec. School, Chennai	81.42
Tenth	2008	Sri Krishnaswamy Matric Hr. Sec. School, Chennai	89.0

\*on a scale of 10

## PROFILE SUMMARY

- Strong knowledge in Architectural conservation and interest in archaeology and historic preservation.
  - Familiarity with National policies in conservation of ancient monuments.
  - Learnt Dravidian Temple architecture and Construction techniques.
- Good understanding in photogrammetry and GIS technology with specific interest in virtual 3D reconstruction, UAV mapping, Field surveying, and Spatial Data Management.
  - Gained clarity and understanding in Geographic and Cartographic principles.
  - Used various surveying equipment like Total Station, GPS/GNSS, UAV, LiDAR and GPR.
  - Utilized the concept of CityGML and its Application Domain Extension for urban modelling, Utility Networks, Asset management.
  - Delivered lectures with demonstration of various concepts and options in tools for GIS such as ArcGIS, QGIS, City Engine.
- Familiarity with the concepts of Data analysis, Machine learning and Spatial modelling.
- Good background in Architectural design with specific interest in building automation..
  - Designed and created detailed drawings of various residential and commercial buildings using 3D modelling tools like AutoCAD, Revit, SketchUp.
  - Built an experimental setup for indoor temperature mapping as a part of smart building.

## SKILLS AND ACHIEVEMENTS

- Software Packages** Agisoft Metashape, Cloud Compare, Cyclone, Pix4D mapper, ArcGIS, QGIS, City Engine, PostGRESsql, PostGIS, FME, AutoCAD, Revit, SketchUp, Naviswork, Microsoft tools, Adobe creative suite.
- Academics**
  - MHRD Scholarship (GATE AIR-317 Architecture and Planning)
  - Best Architectural design in 6th Semester, B.Arch, Meenakshi College of Engineering, Chennai.
- Languages Known** English (SRW), Tamil (SRW), Hindi (RW), French (R).

## Classroom Courses

Lectures series on Dravidian Temple Architecture and Construction Techniques organised by NCSHS at IIT Madras.

## Online courses

- NPTEL course on Architectural Conservation and Historic preservation.
- Mooc on Recovering the Humankind's Past and Saving the Universal Heritage.

## JOB EXPERIENCE

### Senior Research Fellow, IIT Madras

#### Integrated watershed management of Siruseri basin sustainable water supply and flood protection of the region

(August 2017 -December 2017)

A corporate social responsibility program funded by TATA Consultancy service, under professor Dr.Balaji Narasimhan, IIT Madras. This project basically involves the restoration of Siruseri Lake, Chennai for sustainability and flood protection.

**Role and Responsibility:** As a Senior Research Fellow, I was involved in processing the collected data from UAV aerial and Topological survey identifying the sinks and watershed regions and plan for a feasible proposals and finally the landscape design.

### Research Scholar, IIT Madras (Current job)

(Joined on January 2018)

After examination and interview procedures, I was selected for the PhD program in the Building science division of the Department of Civil Engineering at IIT Madras under HTRA scheme (January-May 2018 admission). Closely involved in projects of National Centre for Safety of Heritage Structures(NCSHS) under supervision of Dr.Koshy varghese and Dr.Arun Menon.

## INTERNSHIP INFORMATION

### I&S STUDIO

Intern Trainee(MAY 16, 2013 - JUNE 14, 2014)

- Various Residential and Commercial buildings in and around Chennai were planned and designed using AutoCAD, Revit, SketchUP.
- Worked with the design team of Township planning at Seneerkuppam, Chennai.
- Detailed Construction Drawings were prepared and co-ordinated with the site engineers during execution.
- Site visits and Inspections, surveying and recording the existing site, capturing post-completion photographs were few other tasks done out of interest.

### UNESCO - World Heritage Conservation Program

REVIVE CHETTINAD CAMPAIGN (MARCH 22, 2012 - MARCH 28, 2012)

- Survey of a village Pallathur, Karaikudi. Recording the different types of Chettinad heritage rich houses, vacant lands, ruined houses and some house which are in danger for a period of one week.
- Collected data were compiled in a map format and presented.

## PERSONAL DETAILS

**Father's Name:** Balasubramanian P

**Date of Birth:** May 22, 1993

**Gender:** Male

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