

# MANOHAR ERIKIPATI

## *Curriculum Vitae*

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Work Portfolio : manoharuss.github.io

Github : github.com/manoharuss  
LinkedIn : linkedin.com/in/manoharuss

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## Skills

- Code - Pyspark, SQL, Python with Pandas and matplotlib, Node.js, Matlab.
- Cloud - AWS platform with EMR, ECS, Lambda for compute. Data-warehousing with Athena, S3. Databases DynamoDB, RDS.
- Orchestration - Apache Airflow, Dagster.io.
- Geospatial - Mapbox developer tools, Tippecanoe, GDAL, QGIS.
- Containerization - Docker.

## Professional Experience

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|-------------|---|
| 2019 – 2021 | <b>Senior Data Engineer at Mapbox - Washington D.C.</b><br>I've built ETL pipelines with Pyspark in the Basemap team. I was a core cartographer for 2 layers on Mapbox Streets production map.<br>I've built a conflation engine with spatial clustering to merge large address datasets from multiple commercial vendors.<br>I owned and maintained our ingestion system to deliver OSM PBF partitions daily to internal customers at a 24hr interval.<br>I upgraded CI/CD environment from Python 3.5 to Python 3.7 for nearly 20 data pipelines.         |
| 2018 – 2019 | <b>Map Data Engineer at Mapbox - Bangalore</b><br>I've built a data validation stack for OpenStreetMap to catch vandalism in daily updates as part of the Cartography team. The system protects Mapbox from ingesting geodata with graffiti, profanity and hate-speech. I achieved a 99.999 SLA with my team.<br>I was on-call for resolving business critical map incidents and root-cause analysis for vandalism.<br>I documented my work in OpenStreetMap diaries and presented at open data conferences such as State of the Map held in Japan in 2018. |
| 2016 – 2018 | <b>Data Analyst at Mapbox - Bangalore</b><br>I started as a OpenStreetMap analyst in the Mapbox data team. I was point of contact for all data validation errors in OSM basemap.<br>I helped build OpenStreetMap Changeset analyser osmcha.mapbox.com and wrote the usage guide for it.<br>I resolved critical issues of map vandalism in OpenStreetMap for Mapbox management.<br>I participated in mapping for Humanitarian OpenStreetMap Team projects such as Mapping for Malaria eradication.   |
| 2012        | <b>Systems Engineer Trainee at Infosys - Mysore</b><br>For a 4 months period, I was a trainee learning object oriented programming with Java at Infosys training center.  |

## Academic Education

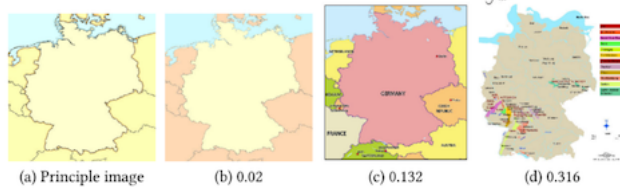
2012–2015	MSc in Geomatics Engineering, University of Stuttgart, Germany.
2007–2011	Bachelors in GeoInformatics Engineering, Andhra University, India.

## Languages

Telugu	Mother tongue
<b>English</b>	<b>Fluent</b>
German	Beginner (A1 2012)
Hindi	Fair
Kannada	Fair

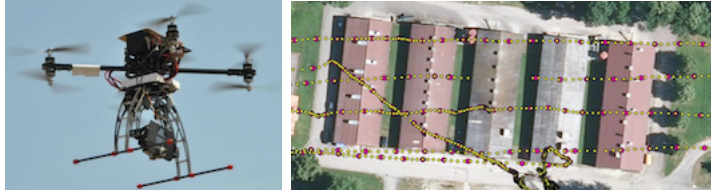
## Academic Projects

- 2015 Master thesis on Content based image retrieval methods - Comparison of color, texture, region and edge detection methods.



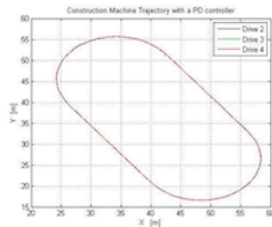
Refer to thesis report.

- 2014 Fieldwork to generate an Orthomosaic with aerial images acquired using a drone.



Refer to field report.

- 2014 Lab work to run a toy truck with a 3point controller around a predefined loop.



Refer to lab report.

- 2011 Bachelor thesis on using mathematical morphology for rain guage data for generating skiz maps and median maps.



Refer to thesis report.