

Proposal for openstreetmap

Your name

Name- Adithya Ambapurkar

Your current occupation (University, course of studies, job, etc.)

Student

University/College currently studying- NGIT Hyderabad

Course of Study- Computer Science

University/College previously studied- JNAFAU Hyderabad

Course of Study- Urban planning

Website/Blog/GitHub page

Github- <https://github.com/adinayyu>

Your involvement in OpenStreetMap (mapping or using the data)

I have studied urban planning earlier before studying computer science. But I discontinued urban planning and started studying computer science. So I have done some gis work using arcgis and qgis as part of academic work. I have not involved in openstreetmap directly but used it sometimes to check maps or any data like contour, transportation etc.

Summer academic work

Organization- GIT Geomatics

May 2020 - Jun 2020 (2 months)

Task-1: Preparation of GIS database of a Village (rural area) that include digitisation of village map, Geo-reference of HRS Google image & village map, Land use land cover preparation, integration and spatial analysis of cadastral & LuLc for development plan.

Task-2: Estimate of Land acquisition and compensation for proposed Road widening in an urban area using GIS that include geo-reference of HRS data, digitization of Road, Buffer creation and integration for spatial analysis

<https://drive.google.com/file/d/10n8BwGE9ywL9lBt839AKzk4n-hO6NOyr/view?usp=sharing>

DEM Model

<https://drive.google.com/file/d/1NEnRIldoxdRPomInf0B3wumNLrz0eOWBt/view?usp=sharing>

Laos map

https://drive.google.com/file/d/1Dkb7z4pGO14fVF175aP075Q33dB_rDmW/view?usp=sharing

Relevant programming and other technical skills

C (Programming Language)

Python (Programming Language)

HTML5

Java

Android

Cascading Style Sheets (CSS)

MERN Stack

NumPy

Details of any previous and current computer programming projects

Refer github link

Have you applied for other project ideas/organizations?

Yes applied to osgeo, openafs, roboelectric, checkstyle

Project Selected

Topic-

JOSM editor core- High Resolution Image Viewer for 360 Images

Time Schedule:

Are you planning any vacation this summer?

No

Do you have any classes, employment or other commitments this summer?

In july end or august starting or august mid i might have my college end sem exams so will not be able to work during this period. Exact dates i will inform later

Which weeks you will be available for how many hours?

14 hours per week approx

Schedule for project completion:

May 20th- June 12th community bonding period

I will study the documentation and know about the project. I will interact with the mentors and community.

June 13th- 25th phase 1

Read about panorama projection and spherical images. Check the source code and understand the project. I will have to revise any java topics if required.

July 25th- September 4th(September 12th- November 13th)

The Geo-tagged image viewer for 360 images produces low resolution images at the moment. An alternate image viewer which is slow but produces high resolution images is required for viewing important details. Also some GUI will be needed to switch between these two modes.

Work period with guidance from mentors

September 5th-12th(November 21st)

Remaining work is completed and evaluated by mentors. Then final work is submitted.