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GPS is a space-based global navigation satellite system.

GPS Projects helps to estimate exact location, velocity, time in all weather, anywhere in world.

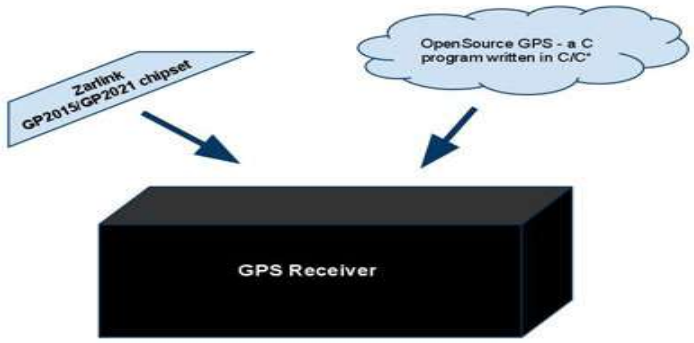
Requirements of GPS Projects.

- Android or java enabled mobile.
- In android device must have GPS receiver, while J2ME use external GPS through Bluetooth.
- Internet connection needed.
- Latest version of commonly used browser.

Block diagram of GPS receiver :

GPS receiver types,

1. Hardware based(GP2021)
2. Software based



The chip features an on-board analog-to-digital converter or sampler that provides a two-bit quantized output for subsequent signal processing in the digital domain.
The GP2021 is a 12-channel correlate chip.

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Applications of GPS Projects.

Military:

- Navigation.
- Missile and projectile guidance.
- Target tracking.
- Search and rescue.
- Reconnaissance.

Civilian application:

- Cartography.
- Cellular telephony.
- For mining.
- Aircraft tracking.
- Genofencing.
- Fleet tracking.

Sample IEEE GPS Projects Topics.

SI	IEEE GPS Projects Titles.
1	Capturing the Signature of Severe Weather Events in Australia Using GPS Measurements.
2	GPS assisted Standard Positioning Service for navigation and tracking: Review & implementation.
3	Validating the Variability of Snow Accumulation and Melting From GPS-Reflected Signals: Forward Modeling.
4	Real-Time GPS Precise Point Positioning-Based Precipitable Water Vapor Estimation for Rainfall Monitoring and Forecasting.
5	Network delay modeling for assisted GPS.
6	Polarization performance study of a GPS antenna mounted on a small t-tail aircraft in landing position using EM modeling.

ACADEMIC COLLEGE PROJECTS
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7	A software post-processing method for GPS receiver's accuracy characterization.
8	Understanding Taxi Service Strategies From Taxi GPS Traces.
9	Net recovery of UAV with single-frequency RTK GPS.
10	Simulating the Impact of Refractive Transverse Gradients Resulting From a Severe Troposphere Weather Event on GPS Signal Propagation.
11	Miniature Folded Patch GPS Antenna for Vehicle Communication Devices.
12	Assimilation of GPS-Derived Atmospheric Propagation Delay in DInSAR Data Processing.
13	Snow Depth Estimation Based on Multipath Phase Combination of GPS Triple-Frequency Signals.
14	Mitigation of GPS multipath using affine combination of two LMS adaptive filters.
15	Path reconstruction based on gyroscope bias estimation using GPS.
16	Collection and exploration of GPS based vehicle traces database.
17	Long-term uncertainty in time transfer using GPS and TWSTFT techniques.
18	Development of LabVIEW based system for interfacing with GPS receiver.
19	Cloud-assisted GPS-driven dynamic spectrum access in cognitive radio vehicular networks for transportation cyber physical systems.
20	Vegetation Sensing Using GPS-Interferometric Reflectometry: Theoretical Effects of Canopy Parameters on Signal-to-Noise Ratio Data.
21	Implementation of real-time GPS receiver system for providing navigation based services and SMS tracking.
22	Measurement of vehicle acceleration in studies of older drivers from GPS position and OBDII velocity sensors.
23	GPS Error Correction With Pseudorange Evaluation Using Three-Dimensional Maps.
24	A Compact L-Band Bandpass Filter with RF MEMS-Enabled Reconfigurable Notches for Interference Rejection in GPS Applications.
25	A Study of diurnal variation of Ionospheric Scintillation effects on GPS signals at low latitude equatorial anomaly station, Surat, India.
26	Design of GPS Anti-Jamming Systems Using Adaptive Notch Filters.
27	Detection of Bohai Bay Sea Ice Using GPS-Reflected Signals.
28	GPS time link calibrations in the frame of EURAMET Project 1156.
29	Tightly coupled integration of GPS and AC Magnetic Positioning Systems.
30	Smooth localization independent of GPS using coarse height maps.
31	High-Latitude Ionospheric Irregularity Drift Velocity Estimation Using Spaced GPS Receiver Carrier Phase Time–Frequency Analysis.
32	Compact microstrip parallel coupled bandpass filter with a centre frequency of 2.4 GHz suitable for bluetooth and GPS communications
33	Navigation of UAV without GPS.

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34	Taxi-RS: Taxi-Hunting Recommendation System Based on Taxi GPS Data.
35	Autonomous Flight Control of a Nano Quadrotor Helicopter in a GPS-denied Environment Using On-board Vision.
36	Methodology for GPS Synchronization Evaluation with High Accuracy.
37	Multi-GNSS Meteorology: Real-Time Retrieving of Atmospheric Water Vapor From BeiDou, Galileo, GLONASS, and GPS Observations.
38	A novel design approach and simulation of frequency reconfigurable micro strip patch antenna for Wi-Fi, WLAN and GPS applications.
39	A Dual Band Dual Polarization Slot Patch Antenna for GPS and Wi-Fi Applications.
40	Design and Validation of a GPS Logger System for Recording Aerially Deployed Herbicide Ballistic Technology Operations.
41	Stoppage pattern analysis of public bus GPS traces in developing regions.
42	Dual-Band Circularly Polarized Antenna Combining Slot and Microstrip Modes for GPS With HIS Ground Plane.
43	Design of DGS based dual-element multiband (DEMB) MIMO antenna for GPS and LTE-A applications.
44	Use of two traveling GPS receivers for a relative calibration campaign among European laboratories.
45	Enhanced noise models for GPS positioning.
46	Software defined radio implementing GPS parallel frequency space search acquisition algorithm in real time environment.
47	Autonomous landing of small unmanned aerial rotorcraft based on monocular vision in GPS-denied area.
48	GPS-based antenna tracking and signal beamforming system for small UAV platform.
49	Efficient and effective matching of image sequences under substantial appearance changes exploiting GPS priors.
50	Precise cascade synchronization of two digitally tuned space clocks to UTC (GPS).