

Mot Mot

Tracker

by

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Changelog

* **14.03.2019:**
  + Hardware is done, GPS module legs are soldered and connected to the Raspberry Pi.
  + We have a server set up on DigitalOcean
  + Initial startup script created (Put into .bashrc) to disable gpsd daemon. We need this disabled to be able to extract gps data manually.
  + Done initial test to see if the Pi and the server can communicate using SCP and SFTP
  + Created first version of GPS data parser (NMEAparser.py)
  + Added python 2 support for the parser
  + Added multi-line functionality to the parser
  + De-crapify the output of the parser. Now it drops all lines that doesn’t match our format.
* **15.04.2019:**
  + Pushed website code to github.
  + Website is now live at [http://209.97.140.84](http://209.97.140.84/)
  + Added extra code to NMEAparser.py that converts Degree, minute, second (DMS) to decimal. For the website to understand coordinates.
* **17.04.2019:**
  + Added SSH and SCP capability to NMEAparser.py. This allows the transfer of data to the server. Connects to server via SSH and uses SCP to transfer data. This can be easily changed to suit what data we wish to send to the server. “scp” and “paramiko” libraries used to implement this.
  + Arranged code into logical functions (parser, transfer and main) and implemented accordingly.
  + General tidy up of white space to accommodate the newly defined functions.
  + Installed “scp” and “paramiko” to the raspberry pi to allow for data transfer functionality.
* **18.04.2019:**
  + The parser appends Time and Date of captured GPS data to latlng.txt
* **20.04.2019:**
  + Added a function to remove duplicate lines from “latlng.txt”.
  + Made sure that the files “longlat.txt” and “latlng.txt” are created at the start of the parser. This ensures that they exist and stops an error being thrown by the newly added “removeDups” function.
  + Added a function to sort “latlng.txt” into time order. This ensures that the most recent coordinate is at the top of the file ready for the server to plot.
  + Added more code comments.
* **22.04.2019:**
  + Fixed a couple errors where the parser would crash because of “[]” characters.
  + Fixed dates in latlng.txt. Some dates were corrupted, now all of them should be good.
  + Improved accuracy of the DMS to decimal converter in the parser.
* **23.04.2019:**
  + Fixed more errors related to parser hiccup caused by non-numeric input when converting DMS to decimal
  + Added number of satellites in view to the end of latlng.txt sentences for the website to display.