**Documentation for RemoteLogger Library**

Documentation Wishlist

User-facing documentation:

* Instructions on full setup of Arduino IDE for the Feather Adalogger
* Instructions on installing the RemoteLogger library from GitHub
* Instructions on downloading your data from the database website (if you’re using Alex’s database)
* Instructions on installing the libraries you need for the RL library
* Instructions on custom-designing your own sketches with the RL library for sensors that are not supported
* User-facing documentation of each public function (arguments, return, description)
* Introduction to the project
* License for use (open source)
* Update wiring diagrams and materials lists
* List of sensors supported by the library and links to them
* Instructions on field setup and testing
* Instructions on recommended bench testing
* Acknowledgements

Documentation for source code:

* Description of the library source code
* Scope and design choices (what was included/left out)
* Likely changes/directions of improvement and things that are necessary to keep
* Limitations and things to look out for
* Dependencies between functions/variables
* List of letters used for different measured parameters in the database and what they correspond to

User-Facing Docs – OUTLINE

* Introduction to the project
* ~~What is the project for? What are its benefits?~~
* Acknowledgements
* Licensing – how can you use this product?
* Getting started
* ~~How to download, install, and set up the Arduino IDE for use with the Feather Adalogger~~
* How to download and install the RemoteLogger library
* ~~How to install necessary libraries for the RL library to work~~
* ~~How to access examples from RL library, compile, and upload to the Feather Adalogger~~
* Troubleshooting during setup
* Building a datalogger
* ~~Supported sensors~~
* Wiring diagrams and materials lists
* Build instructions
* Recommended bench tests
* Field deployment and testing
* Accessing your data (if you’re on Alex’s database)
* Ongoing maintenance/troubleshooting
* Library functions
* Beyond the library – designing your own network
* Writing sketches with combinations of supported sensors
* Writing sketches with sensors not supported by the library
* Setting up Iridium RockBlock system for your own modems
* Overriding library functions (e.g. writing your own send\_msg for a different satellite/cellular/wifi modem)
* Setting up your own database

Source Code Docs – OUTLINE

* Scope
* What was included
* What was not included – left to the user
* How to help the users figure out how to do their part
* Why things were included or left out
* Limitations and improvements
* Limitations on the design by hardware/external systems (e.g. Iridium’s send timeout determining how much data is too much to try to send)
* Limitations from message structure on scalability
* Dependencies
* Dependencies between functions/variables
* Interface with database
* Message structure to be processed properly by database
* Letters that are mapped to particular messages