

Build Tutorial for SNR based GNSS Reflectometry (GNSS-R) Project

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Based on Fagundes, M.A.R., Mendonça-Tinti, I., Ilescheck, A.L. et al. An open-source low-cost sensor for SNR-based GNSS reflectometry: design and long-term validation towards sea-level altimetry. GPS Solut 25, 73 (2021). <https://doi.org/10.1007/s10291-021-01087-1>

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Parts

The parts list can be found on DigiKey here: <https://www.digikey.co.nz/en/mylists/list/PICEBQ9ABU>

1. Arduino Firmware

1.1 Arduino IDE Setup

Download the latest version of the Arduino IDE from here: <https://www.arduino.cc/en/software>

Then open arduino settings and add the following URL under "Additional boards manager URLs": https://adafruit.github.io/arduino-board-index/package_adafruit_index.json and click "OK". If you already have an URL in the board manager add a comma at the end and then paste the URL.

