GNU Radio Basics

GNU-Radio

GNU Radio is a free and open-source software development toolkit that provides signal processing blocks to implement software radios. It can be used with readily-available low-cost external RF hardware to create software-defined radios, or without hardware in a simulation-like environment. It is widely used in research, industry, academia, government, and hobbyist environments to support both wireless communications research and real-world radio systems.

Some useful links:

- Videos on GNU radio basics:
  https://www.youtube.com/watch?v=S5Fm1yu-bbc
  https://www.youtube.com/watch?v=Yc3K3bUxPW8
  https://www.youtube.com/watch?v=Ka540X5NjwE
  https://www.youtube.com/watch?v=7dvw-B_CGEg
  https://www.youtube.com/watch?v=N9SLAnGlGQs

- GNU radio Wiki link for guided tutorial
  https://wiki.gnuradio.org/index.php/Main_Page#Software-Defined-Radio-Track

- GNU radio block documentation
  http://www.ece.uvic.ca/~elec350/grc_doc/index.html

- GNU radio official site
  https://www.gnuradio.org/