project_1.m

1

2

3

generate_l1ca_code.m

generate_code_samples.m

circular_corelation.m

generate_mls.m

The attached code ultimately examines the autocorrelations and cross-correlations of CA codes generated with two different PRNs. The autocorrelation of each signal shows how correlated a signal is with itself at different phases. The cross-correlation shows how correlated the two different signals are. The general flow of the code is diagramed above, though there are smaller functions at work that aren't shown here. The final plot of auto- and cross-correlations is saved as a .png titled "correlation_plots.png."