ESSE 4610 PROJECT 3:

PROGRAMMING OF GPS NAVIGATION SOLUTION

PROGRESS REPORT 1

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**PROJECT DESCRIPTION**

We will develop software in order to better understand the Standard Positioning Service GPS navigation solution.

**PROJECT PLAN**

We will stick to the project milestones detailed in the lab handout and will strive to quickly, correctly, and efficiently complete the weekly tasks assigned to us.

**PROJECT REQUIREMENTS**

We must provide a program that can:

1.) Read and Process a RINEX observation file

2.) Read and Process a RINEX navigation file

3.) Apply ICD-GPS-200C data corrections

4.) Estimate receiver coordinates and clock offset using non-linear parametric adjustment

Additional Stipulations Include

*-Input parameters from input file or from terminal use*

*-Output and store estimations, their uncertainties, statistics in a log file*

**PROGRAM STRUCTURE**

**WORK BREAKDOWN**

**Sonal and Patrick**

*-Software Design*

**Maker and Jason**

*-RINEX file format research*

*-Correction research*