**Mark Wilkinson**

Problem Reports for EE 6083 Aviation Software final project.

A project in partial fulfillment of course requirements for the

*Aviation Standards, Software Design and Certification (EE-608)* course

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1. Issues during requirements gathering:
   1. Original requirements were not generated correctly, based on a misunderstanding of the project document.
   2. Corrected requirements were re-submitted in the second part of the project for weeks 9-12.
2. Issues during development:
   1. Simulink software portion could not be finished to create a complete Simulink model that processed the entire data set.
3. Resolutions:
   1. In response to this, the software solution was written entirely in Matlab script.
   2. All test cases were written in Matlab scripts that in turn tested the Matlab script representing the project software solution.

**Problems found during testing phase**:

* It was found that the WGS to ENU module was not converting degrees with pi/180 multiplied by each value. However, this was applied in the test to conclude that the TCAS system module does the conversion for each value.
  + Affected: LLR.3 -> HLR.2 -> SYS.2

**Resolved**

* It was found that the RA thresholds module was returning the zeros vector (if there was an altitude outside the valid ranges) was being transposed for no particular reason.
  + Affected: LLR.6 -> HLR.3 -> SYS.2

**Resolved**