Deliverables

Milestones:

- 1. Generate artificial data
 - a. linear
 - b. ramp
 - c. arc
 - d. w/ noise
 - e. w/ multiple outliers
- 2. Create testbench with artificial and real data
- 3. Naive implementation of Hampel filter
- 4. Optimizations on median filter and sliding window for Hampel filter
- 5. Optimization to meet target interval and clock
 - a. Interval = 10 cycles
 - b. Clock = 125 MHz
- 6. Pynq Implementation (AxiStream)
- 7. Implement Moving Mean filter and compare with Hampel Filter
- 8. Implement 2D Hampel Filter

Grading:

A++(extra extra credit): Milestones 1-8

A+ (extra credit): Milestones 1-7

A: Milestones 1-6

A-: Milestones 1-4, & 6

B: 1-4

C: 1-3