$Final\ Demonstration\ Grading\ Rubric-ECEN 5623,\ RT\ Embedded\ Systems$

96/100

Rubric	Score [010]	Notes
Report and demo professionalism	10	Excellent
Final Demo or Upload Organization with updates: 1. System block diagram 2. Capability and Real-time requirements – S, WCET, T, D 3. RT analysis – feasibility, response jitter, and real-time service execution time 4. Proof-of-concept demonstration and testing 5. Coverage of specific points for final assignment	9	RT (core 3) – seq, read-frame, write-frame BE (core 2) - status
Technical content – error free, in depth, presented clearly, and debug work	9	Htop and sysprof verified
Adherence to Standards – follows real-time and functional requirements presented as goals in original proposal; follows Rate Monotonic (RM, EDF, LLF and BE) scheduling policies and methods to determine feasibility and safety	10	AMP RM policy for prio assignment
Response to Questions - admission of unknowns, concise, confident	10	Direct answers with unknowns admitted
Updated detail – references to report, backup slides, code, models	9	New syslog tracing
Testing – time-stamp tracing for WCET, profiling, deadline misses / request	9	Syslog analysis done and will update with latest
MINIMUM goals met 1. 1 Hz, non-blurry, unique, monotonic seconds, no observed errors 2. PPM with timestamp (well correlated) 3. 180 frames at 1 Hz, 2x or more reliable	10	 First, last, no blurs seen, no skips or repeats PPM header 2x with no apparent glitches
TARGET goals met 1. Runs 10 Hz or 1 Hz PPM save rate 2. Additional feature enable/disable 3. Re-run MIN tests, changes noted	10	 Runs, but has blur and repeats (with X windows and VNC) Best effort status service (working on TCP streaming, but not working at this time) Status does not impact 1 Hz
STRETCH goals met 1. Run at 10 Hz, non-blurry, unique, monotonic to 1/10 th of second, 2x or more 2. Tested and proven design for no observable errors and reliable, predictable response	10	Re-try with SSH and syslog disabled – excellent results

1	2) Socket communication
	working reliably

Score [0...10] - 0..4=incomplete, 5=unsatisfactory, 6=passing, 7=average, 8=good, 9=outstanding, 10=exceptional