Final Demonstration Grading Rubric – ECEN5623, RT Embedded Systems

Rubric	Score [0…10]	Notes
Report and demo professionalism		
Final Demo or Upload Organization with updates: 1. System block diagram 2. 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		
Technical content – error free, in depth, presented clearly, and debug work		
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		
Response to Questions - admission of unknowns, concise, confident		
Updated detail – references to report, backup slides, code, models		
Testing – time-stamp tracing for WCET, profiling, deadline misses / request		
MINIMUM goals met **1. 2 or more real-time services running on one AMP core (additional services on any core)** **2. 1 Hz, non-blurry, unique, monotonic seconds, no observed errors** **3. PPM or PGM with timestamp matching image** **4. 180+1 frames acquired at 1 Hz, 2x or more**		
TARGET goals met **1. Runs 10 Hz or 1 Hz frame acquisition rate and can save all 1800+1 image files** **2. Additional feature enable/disable** **3. Re-run MINIMUM with additional feature**		
STRETCH goals met **1. Run at 10 Hz, non-blurry, unique, monotonic to 1/10th of second, 2x or more for 1800+1** **2. Tested and proven design for no observable errors and reliable, predictable response**		

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