

## Final Demonstration Grading Rubric – ECEN5623, RT Embedded Systems

Rubric	Score [0...10]	Notes
<b>Report and demo professionalism</b>		
<b>Final Demo or Upload Organization with updates:</b> <ol style="list-style-type: none"> <li>1. System block diagram</li> <li>2. Capability and Real-time requirements – S, WCET, T, D</li> <li>3. RT analysis – feasibility, response jitter, and real-time service execution time</li> <li>4. Proof-of-concept demonstration and testing</li> <li>5. Coverage of specific points for <a href="#">final assignment</a></li> </ol>		
<b>Technical content</b> – error free, in depth, presented clearly, and debug work		
<b>Adherence to Standards</b> – 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		
<b>Response to Questions</b> - admission of unknowns, concise, confident		
<b>Updated detail</b> – references to report, backup slides, code, models		
<b>Testing</b> – time-stamp tracing for WCET, profiling, deadline misses / request		
<b>MINIMUM goals met</b> <ol style="list-style-type: none"> <li>1. 1 Hz, non-blurry, unique, monotonic seconds, no observed errors</li> <li>2. PPM with timestamp (well correlated)</li> <li>3. 180 frames at 1 Hz, 2x or more reliable</li> </ol>		
<b>TARGET goals met</b> <ol style="list-style-type: none"> <li>1. Runs 10 Hz or 1 Hz PPM save rate</li> <li>2. Additional feature enable/disable</li> <li>3. Re-run MIN tests, changes noted</li> </ol>		
<b>STRETCH goals met</b> <ol style="list-style-type: none"> <li>1. Run at 10 Hz, non-blurry, unique, monotonic to 1/10<sup>th</sup> of second, 2x or more</li> <li>2. Tested and proven design for no observable errors and reliable, predictable response</li> </ol>		

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