

## ECE 241/298 Final Project Technical Marking Rubric

	<5	5	6	7	8	9 or 10
Technical Challenge	Project below 2 <sup>nd</sup> yr. level or should be a simple early lab No requirements	Project is a minor modification of 241 lab (e.g. pattern recognizer) Primarily combinational circuitry, no stated requirements	Straight forward problem. Solution is routine with no significant custom components.	Moderately difficult problem. Some structural complexity involving multiple components.	Problem of above average difficulty with some custom components and moderately complex structure. Solution involves choice of design.	Complex problem solved with system of design parts, several of which incorporate custom components.
Design Process	Using C code instead of hardware Replacing hardware language with JAVA or C	Missing, confusing or sloppy charts or state diagram, Vague description of FSM	Simplistic or confusing explanation of FSM Charts/state diagram are incomplete or sloppy but comprehensible No justification for cutting a component	Basic explanation of FSM and components through flow chart or state diagram, may be incorrect info in FSM chart, Lack of justification for cutting a component (e.g. used lights instead of 7 segment display)	Good explanation of FSM and components using flow chart and state diagram and description May include a custom component that is not adequately explained, cut nothing or justified cut reasonably	Detailed design Clear and reasonably complete explanation of FSM, Registers, Counters using flow charts, state diagrams and description Explanation of any custom components, cut nothing or clear justification for cutting
Design Success	Simple lab poorly executed Not using hardware as project intends	Simple lab completed Lack of testing Missed or missing requirements	Simple project working with some bugs, complex project with problems, little evidence of testing, problems with specs	Simple working project or more complex but only with simple part working Little evidence or superficial testing, met specs	Well-designed working System. Simple project well done or complex project with some complex components completed Modified specs as necessary and justified	Well-designed working System. Simple project exceptionally well done or complex project reasonably far along, evidence of testing from simulations or explanation, met requirements (as modified)
Overall View	Serious problems	Insufficient	The "C" Adequate	The "B" Does the assigned task	Above average project shows some originality and sophistication	Excellent original project shows very strong lab work, clear understanding and sophistication

**Comments:**

ECE298 Seminar Session: \_\_\_\_\_ Examination Room: \_\_\_\_\_ Examination Time: \_\_\_\_\_  
 Practical Session: [ ] PRA101 [ ] PRA102 [ ] PRA103 [ ] PRA104 Lab Room: \_\_\_\_\_ Station #: \_\_\_\_\_

Student Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Contribution: [ ] High [ ] Medium [ ] Low [ ] None

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