4: ECE Concept #1/4

ECE 403: Homework #4

separate grading for each student

Update your OneNote document to include the following for each section (each student):

Document your work on Task #1 including
- A short description of your task
- Paper design: calculations, values of components, flow charts, program listings
- Simulation: Circuitlab simulations (if applicable)
- Validation & Test Results
  breadboard results (hardware - include photos)
  videos are sometimes useful
  test code and test results (software)

Grading

Note:
- Your tasks are what needs to be completed to get your overall project working.
  Sections of OneNote
- Your grade in ECE 403 is based upon your ability to apply advanced knowledge of ECE
  Grades on BlackBoard

Throughout the semester (every two weeks usually), your grade on BlackBoard will be updated.
- HW4 is your grade related to the first ECE concept
- HW5 is your grade related to the second ECE concept, etc.
- HW8 is your grade related to your use of ECE tools to verify your design

Each task could contain work (and grades) related to several ECE concepts and ECE tools.

Your grades are based upon your ability to apply knowledge of ECE four different ways. For each advanced ECE topic:
- 10 points: One-Note documents A-level knowledge along with an ability to apply this knowledge on a topic. Typically this would include calculations, simulations verifying calculations, and ideally hardware data.
- 8 points: Demonstrate B-level knowledge on topic. Demonstrate decent knowledge of topic but some area are weak.
- 6 points: Demonstrate C-level knowledge. Missing calculations and/or simulations. Missing explanation of how the circuit and/or program works.
- 4 points: Demonstrate D-level knowledge. Able to simulate a circuit or run a program, but missing explanation of how it works and where values came from.
- 0-3 points: Minimal knowledge of topic demonstrated (or does not demonstrate knowledge of that ECE topic.)

Also note that your OneNote document is a work-in-progress. You are most welcome to revise and update each section (task) throughout the semester. Your grades will be updated accordingly on a biweekly basis. Your final grade is what's in OneNote at the end of the semster (Friday of week #16).