

ECE 477 Digital Systems Senior Design Project

Guideposts Week 4

Announcements

- Please submit homework assignments in .doc or .docx form (.ppt/.pptx form where appropriate)
 - Do not submit PDFs
 - Homework submission script updated to reflect more permissive wording

Last Week (Week 3)

- Homework 2: PCB Tutorial Assignment
 - Learned fundamentals of PCB design and layout
 - Developed familiarity with the Eagle CAD tool
- Acquired development boards and tools to begin prototyping designs

This Week (Week 4)

- Homework 3: Design Constraint Analysis
 - Due Friday at 12pm (noon).
 - Include updated PSSCs
 - Analysis of design constraints (computing, power, size, weight, cost, etc.)
 - Component analysis: choose between 2+ options for each major component of your design
 - Refer to Project Hardware Policy; ask course staff if you have questions
 - Bill of Materials (BOM)
 - System block diagram (show the major components of your system and how they fit together)

This Week (Week 4)

- Mandatory Lab Session 3:
 - Wednesday at assigned TCSP session time in EE061/EE063 (8am and 12pm)
 - Discussion of components, top-level designs, etc.
 - All students are expected to remain in lab for the entirety of their mandatory lab session
- Inclement Weather:
 - ECE477 will follow Purdue's action concerning school closure, etc.
 - In event of snow emergency or class cancellation, mandatory lab session is cancelled. Students are otherwise expected to attend

Next Week (Week 5)

- Homework 4: Packaging Specifications and Design
 - Analyze packaging design choices of competing solutions
 - CAD model of expected project packaging
 - Considerations for project packaging (tooling, materials, cost, etc.)
- After receiving staff feedback (following mandatory lab 4), order electronic components
 - Information on receiving reimbursement for parts (up to \$300 limit) found in Parts Ordering Process

Questions?