

Practicum Team 1

Meeting runtime: 4:00 PM - 8:00 PM

Agenda:

Where are we at with everything? → [Gantt Chart](#)

- Are parts ordered?
- Programming updates?
- Task Division
 - BOM - Chris Kane-Pardy ✓
 - Rough draft of CAD - Henry Sanders Chris Kane-Pardy Brad Glaubitz Caleb Monti
 - Schematic (pretty much finalized, right?) - [Current Schematic](#)
 - Add back in the logic level shifter as DNP?
 - PCB (need to route traces, organize everything, etc.)
 - 3D Model (*WIP* - Chris Kane-Pardy)
 - Functional Decomposition - [Functional Decomposition](#) - [Lucid Flowcharts](#) - Henry Sanders ✓

HW Wk 07 (due 11/14)

- Rough Draft of CAD (Group)
 - You should be mostly done! Now the only things left are changes for out of stock components, changes from design reviews, changes for DFX, etc.! And, of course, make sure this is checked in under version control!
 - Submit it in TWO WAYS:
 - Print a PDF of your schematic and board layout and upload it to Canvas.
 - Enter a URL to your collaboration site to the folder where your schematic and layout files are checked in.
- Bill of Materials (BOM) (Group)
 - Upload your Bill of Materials (BOM) Use the attached template.
 - [Bill of Materials Template](#)
 - Submit it in TWO ways:
 - Upload your BOM as an XLSX file into Canvas.
 - Enter an URL to your collaboration site to the folder where your BOM is checked in.
- Functional Decomposition (Group)
 - Draw a top-level (Level 0) block diagram of your practicum project showing all inputs and outputs.
 - Draw a Level 1 block diagram showing the principal components or modules of your project along with the interconnections between them. LABEL ALL INTERCONNECTIONS.

- Consult the lecture slides for proper format for capturing the block diagram and describing inputs and outputs.
- Submit it in TWO ways:
 - Post these to your collab site.
 - Upload a PDF to Canvas.

Summary:

- Need to be ready to send board to fab in 9-10 days 😬
- BOM v1 complete ✓
- Functional Decomposition v1 complete ✓

Week ahead: HW Wk 08 (due 11/21)

- Design Review! (Group)
 - Have at least one other team design review your schematic and layout. Bonus points for more than one design review by more than one team. Be attentive! Take notes!
 - To turn in this assignment:
 - Enter the Team number(s) that reviewed your design.
 - Submit a PDF of the notes you took at that design review.
- Final CAD! (Group)
 - After your design review, fix all of the critical issues, go through all the checklists again, and then declare it done!
 - And of course, check it into your versioning system!
 - Submit it in TWO WAYS:
 - Print a PDF of your schematic and board layout and upload it to Canvas.
 - Enter a URL to your collaboration site to the folder where your schematic and layout files are checked in.
- Send your board to fab! (Group)
 - Send your files off to OSH Park for fabrication by **between 12:00pm Wednesday 11/20 and 10:00am Thursday 11/21.**
 - Instructions are posted here [OSH Park Instructions](#); follow them exactly.
 - To submit this as homework, please enter the total cost of your boards.