Documentation

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• Design Notebook

- Why Keep a Design Notebook?
 - * Documents/provides evidence of your work (both individually and as a group)
 - * Useful resource for preparing reports
 - * Serves as an object of memory
 - * Becomes a communication tool of past activity for new colleagues
- Format
 - * Typically you'd use a physical tamper-proof notebook
 - * Front Matter
 - · Put your name(s) and a contact e-mail on cover
 - · Include a team contact page
 - · Leave space in the front for a table of contents
 - * Inside
 - · Number pages
 - · Date all entries
 - * Record Directly into the notebook
 - · As often as possible
 - · Take pics of notes, dry erase boards, etc.
 - · Add links to other documents/resources used
 - * Include narrative to describe any sketches, diagrams, plots, and equations
 - · Don't assume you're the one reading this
 - · Someone else won't have the first-person experience that you do
 - * Any and all work on your project
 - · Ideation, sketches, calculations, etc.
 - * Project meeting notes

- · Agendas, discussion items, and action items
- * Relevant external info
 - · Salient lectures and other reference material
- * Consultations
 - · Include contact information
- * Detailed notes on any compiled info
 - · Library and patent searched
 - · Observations
- * For digital content, describe the work done and where it can be found
- * Include conclusions and recommendations
- * Narrative Describe what is being done
 - · Enough that other engineers can follow
- * Not rigidly formatted
 - · More guidelines than rules
- * Not for everyone's consumption
 - · But should be readable by other engineers
 - · Someone at your level should be able to follow your EDP
- * Provides a time-lapse view of your engineering design process

• Status Memos

- This is a formal statement
 - * In this case, an update on your project status
- They are a primary form of communication in many industries
 - * For informing colleagues of progress or status
 - * For making formal requests as part of your design activity
- A memo is a brief communication written to busy people who want information as soon as possible
 - * Economize your ideas
 - * Be concise
- What to include
 - * Introduction with the main point
 - · The header
 - · To, From, Date, Subject, CC, Attachments
 - · A brief summary
 - · Necessary background
 - · A clearly stated purpose

- · Preview of what's to be discussed
- * Discussion of the topics
 - · A brief discussion of each of the main topics
 - · Approximately 1-2 paragraphs each
- * Review what's been said
 - · Restate the main points and associated main ideas
 - · Include follow-up contact information
- * Specific topics will be included as requirements in the project assignments
- Know who your readers are
 - * Primary "To:"
 - * Secondary "CC:"
- Know why you are writing this
 - * This should be clear to the reader
 - * Most difficult sentence is a statement of purpose