MCA for SMET

MP1 Design Review Presentation

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SENIOR PROJECT TITLE

DATE: _____

- Team Member Name 1
- Team Member Name 2
- Team Member Name 3

PROBLEM ADDRESSED

- Describe the problem addressed by your senior project

THE IDEA

- Describe the Senior Project idea
- What is the value added for your product

APPLICATIONS

- Describe applications of your Senior Project

  → Present Applications

  → Potential Future Applications

END USER CUSTOMERS

- Describe who are/is your customers

→ Approval letter addressed to customer

FEATURE SPECIFICATIONS

- Describe product feature specifications

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CONCEPTUAL DIAGRAM

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PATENT SEARCH

http://patft.uspto.gov

- Describe result of Patent Search
- Show patent numbers (at least one) of closest matches
- Show patent abstracts

VALUE ADDED

- Describe your value added to the project

CONCURRENT ENGINEERING

- Describe all aspects of various Engineering majors needed to realize this design

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(OMG)
OMNI - DIRECTIONAL MOBILE GURNEY

BLOCK DIAGRAM

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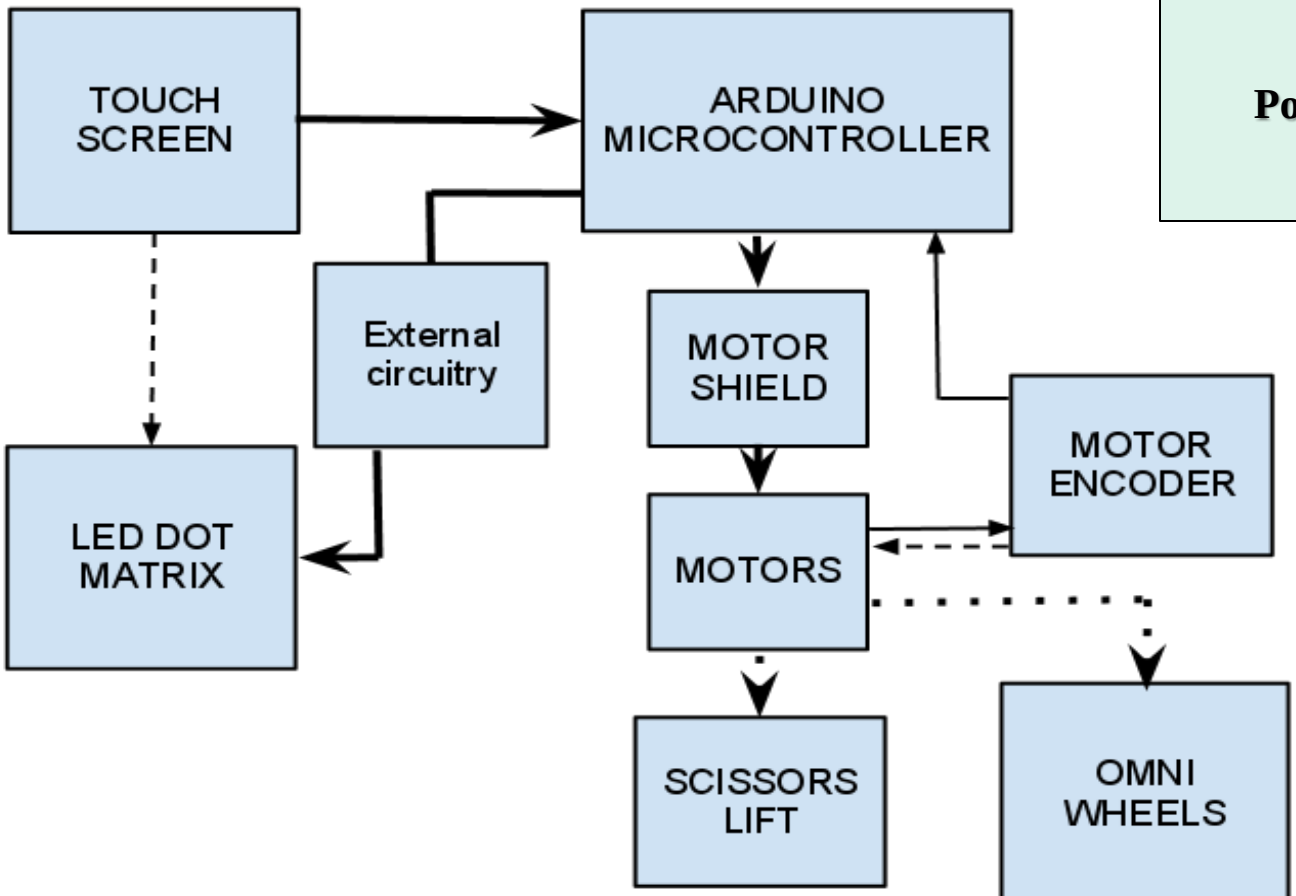

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BLOCK FUNCTIONAL DESCRIPTIONS

High level description of the blocks from your block diagram

- ✓ IDENTIFY THE HARDWARE AND SOFTWARE COMPONENTS OF THE DESIGN

DESIGN SPECIFICATIONS

- Describe design specifications

MECHANICAL SPECIFICATIONS

- Printed Circuit (PCB) design
- 3D Print Packaging Design

TEAM RESPONSIBILITIES

Breakdown of the major tasks and assignment to team members

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MILESTONES

- Timeframe Milestone
- Timeframe Milestone

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DELIVERABLES

What are you planning to deliver for each marking period

MP1 deliverable	MP2 deliverable
MP3 deliverable	MP4 deliverable

GANTT CHART

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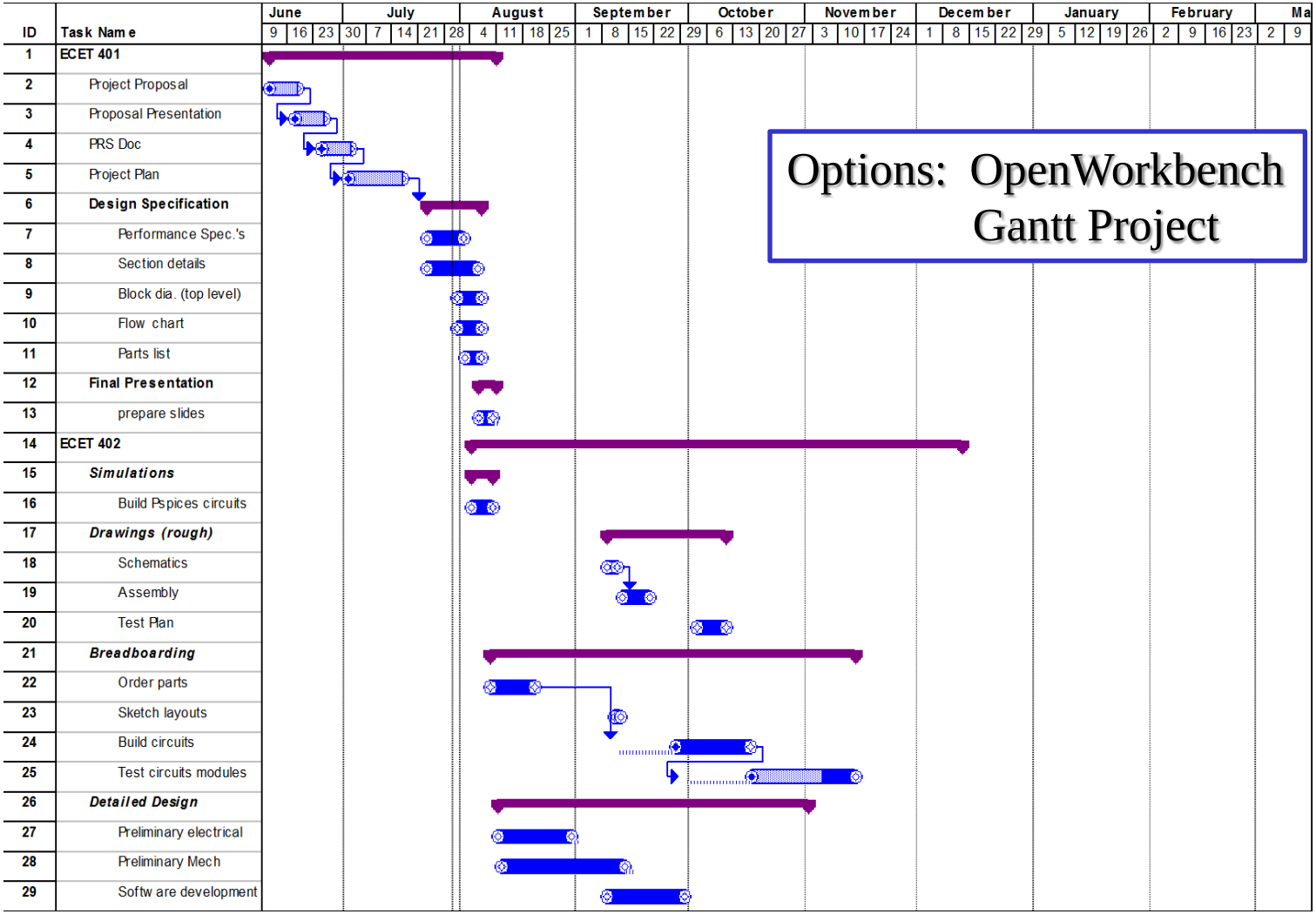

Options: OpenWorkbench
Gantt Project

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BOM ANALYSIS

Preliminary BOM (Bill Of Material → Spreadsheet)

1. Item Number
2. Part Number
3. Reference Designation
4. Primary Source
5. Second source
6. Part Description
7. Lead Time
8. Cost/Unit
9. Total Cost
10. On-Hand

USEFUL TIPS:

- ❑ **ORDER SPARES**
- ❑ **ORDER FROM USA**
- ❑ **CHECK LEAD TIME**
- ❑ **USE PROVEN TECHNOLOGIES**
- ❑ **TRACK ORDER**
- ❑ **HAVE A PRIMARY CONTACT**
- ❑ **MONITOR EXPENSES Vs. BUDGET**
- ❑ **SECOND SOURCE FOR PARTS**

COST ANALYSIS

Preliminary cost analysis. Does it fit within the budget?

If it does not fit, you must not quit

RISK FACTORS

List Risk factors, potential bottlenecks (roadblocks)

CONTINGENCY PLANS

List Contingency plans

TESTING STRATEGIES

- Unit Testing
- Integrated Testing
- System Testing

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OPEN ISSUES

List any open issues

RESOURCE REQUIREMENTS

Describe equipment needed to design, (HW & SW), assemble and, troubleshoot this project

REFERENCES/ACKNOWLEGEMENTS

PROFESSIONALISM → GIVE CREDIT WHERE CREDIT IS DUE!

List all source of information (Books, URLs, articles, magazines, television programs, etc….)

List Acknowledgments