Work Breakdown Schedule

ECE 492 - Spring 2015

Abstract

This is the document which outlines the schedule of tasks for the TSV group and its members.

FINAL Revision 4.0.0

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Summary

This is the final draft of the WBS. All of the deadlines are absolute. Tasks are listed in both the week they begin and the week they end. If they are not due the week they begin, the due date is written in RED. Tasks which relate directly to project deliverables are marked in **BOLD**. Tasks which have already been completed are marked with a "Y." Tasks which were taken out of scope are marked with "N/A". Tasks which changed assignee due to completion issues are marked with "CHNG."

Work Breakdown Schedule

Task Name	Date Assigned	Due Date	Assignee	Met
Creation of PDR document and presentation	**2/2/2015**	**2/9/2015**	**TEAM**	
Creation of requirements matrix	2/2/2015	2/9/2015	Billy	Y
Preliminary acceptance test plan	2/2/2015	2/9/2015	Hansen	Y
System design baseline	2/2/2015	2/9/2015	Katie	Y
System state analysis	2/2/2015	2/9/2015	Jordan	Y
Risk assessment	2/2/2015	2/9/2015	Jaejoon	Y
Cost/Budget analysis	2/2/2015	2/9/2015	Jaejoon	Y
Work breakdown schedule	2/2/2015	2/9/2015	Billy	Y
Adminstration and Management	**2/9/2015**	**2/16/2015**	**TEAM**	
Charging structure redesign proposals	2/9/2015	2/16/2015	Jordan	Y
Create BoM for needed materials	2/9/2015	2/16/2015	Jaejoon	Y
Acceptance test plan draft	2/9/2015	2/16/2015	Hansen	Y
User's manual	2/9/2015	2/16/2015	Katie	Y
Revise Work Breakdown	2/15/2015	2/16/2015	Billy	Y
Hash out communication interface with SCADA	2/9/2015	2/16/2015	Billy	Y
System Redesign	**2/16/2015**	**2/23/2015**	**TEAM**	
Choose new LCD display, interface	2/16/2015	2/23/2015	Hansen	Y
Proposal for 20V indicator design	2/16/2015	2/23/2015	Jaejoon	Y
Proposal for full system reset designs	2/16/2015	2/23/2015	Katie	Y
AIR failure sensor for main fuse design	2/16/2015	3/2/2015	Jordan	N/A
Overall pack wiring diagram	2/16/2015	2/23/2015	Jordan	Y
CAN bus interface on BoB circuit	2/16/2015	2/23/2015	Billy	Y
Begin CDR, finish AMS redesign	**2/23/2015**	**3/2/2015**	**TEAM**	
Correct BoB board errata	2/9/2015	3/2/2015	Katie	Y
AIR failure sensor for main fuse design	2/16/2015	3/2/2015	Jordan	N/A
Fix AMS board layout errata, ready for fab	**2/23/2015**	**3/2/2015**	**Jordan**	**Y**
Put in order for AMS, LCD and computers	2/23/2015	3/2/2015	Jaejoon	Y
Updated system design	2/23/2015	3/2/2015	Katie	Y
Detailed specifications for each subsystem type	2/23/2015	3/2/2015	Katie	Y
Enhanced requirements analysis	2/23/2015	3/2/2015	Billy	Y

User interface demonstrations	2/23/2015	3/2/2015	Hansen	Y
Hardware interface control specifications	2/23/2015	3/2/2015	Jordan	CHNG.
Software API	2/23/2015	3/16/2015	Billy	
A revised program schedule that documents progress	2/23/2015	3/2/2015	Billy	Y
Maintainability plan (not part of CDR)	2/23/2015	3/2/2015	Hansen	Y
Communicate new TSV plan with MechEs	2/23/2015	3/2/2015	Jaejoon	Y
Finish redesign, CDR	**3/2/2015**	**3/9/2015**	**TEAM**	
Fabrication specifications for all subsystems	3/2/2015	3/9/2015	Hansen	Y
Finish BoB revisions for fabrication (contingent on following task)	**3/2/2015**	**3/9/2015**	**Katie**	Y
Update BoB with new charging structure	3/2/2015	3/9/2015	Jordan	Y
Acceptance Test Plan (ATP) approved	**3/2/2015**	**3/30/2015**	**Hansen**	
A final revised cost analysis and detailed program budget	3/2/2015	3/9/2015	Jaejoon	Y
Fusing for BoB	3/2/2015	3/9/2015	Jaejoon	Y
Aggregate CDR documents into report	3/2/2015	3/9/2015	Billy	Y
CDR Presentation	**3/9/2015**	**3/16/2015**	**TEAM**	
Put in order for AMS parts	**3/9/2015**	**3/16/2015**	**Jaejoon**	**Y**
Charge logic implemented on BoB	**3/9/2015**	**3/16/2015**	**Jordan**	
ATP accepted	**3/9/2015**	**3/30/2015**	**Hansen**	
Identify and fix errata related to BoB	3/9/2015	3/16/2015	Katie	Y
Pack interface specifications	**3/9/2015**	**3/16/2015**	**Billy**	**Y**
Set up linux environment on PacMan	3/9/2015	3/16/2015	Billy	
System reset implemented on BoB	**3/9/2015**	**3/16/2015**	**Katie**	
Individual Projects	**3/16/2015**	**3/23/2015**	**TEAM**	
Individual Research Project	3/16/2015	3/23/2015	Billy	
Individual Research Project	3/16/2015	3/23/2015	Jordan	
Individual Research Project	3/16/2015	3/23/2015	Katie	
Individual Research Project	3/16/2015	3/23/2015	Hansen	
Individual Research Project	3/16/2015	3/23/2015	Jaejoon	
Initial systems setup and BoB order	**3/23/2015**	**3/30/2015**	**TEAM**	
BoB LCD header	**3/23/2015**	**3/30/2015**	**Hansen**	
Setup linux environment for PacMan	3/23/2015	3/30/2015	Billy	
ATP accepted	**3/2/2015**	**3/30/2015**	**Hansen**	
Solder 7 AMS boards	**3/23/2015**	**3/30/2015**	**Katie**	
Correct AMS firmware bugs	**3/23/2015**	**4/20/2015**	**Jordan**	

BoB PCB routing	**3/23/2015**	**3/30/2015**	**Jordan**	
24V indicator	**3/9/2015**	**3/30/2015**	**Billy**	
BoB order (PCB and parts)	**3/23/2015**	**3/30/2015**	**Jaejoon**	
Connector ordering	**3/23/2015**	**3/30/2015**	**Jaejoon**	
Correct SOC algorithm for PacMan	**4/13/2015**	**4/20/2015**	**Katie**	
QA for New Materials, Comm. Demo	**3/30/2015**	**4/6/2015**	**TEAM**	
Relay QA	**3/30/2015**	**4/6/2015**	**Jaejoon**	
AMS-PacMan I2C demo	**3/30/2015**	**4/6/2015**	**Jordan**	
QA Calibration testing for BoB sensors	**3/30/2015**	**4/6/2015**	**Katie**	
QA testing for AMS sensors	**3/30/2015**	**4/6/2015**	**Hansen**	
PacMan current temperature adjustment	**3/30/2015**	**4/6/2015**	**Billy**	
VSCADA CAN demo	**3/30/2015**	**4/6/2015**	**Billy**	
System Implementation 1	**4/6/2015**	**4/13/2015**	**TEAM**	
QA testing for PacMan functions	3/30/2015	4/6/2015	Billy	
Build connectors	4/6/2015	4/13/2015	Jordan	
Write code for interfacing with SCADA	4/6/2015	4/27/2015	Billy	
Solder remaining AMS	4/6/2015	4/13/2015	Katie	
EMI/EMC, Hazmat compliance memo	4/6/2015	4/13/2015	Jaejoon	
Write LCD code	4/6/2015	4/20/2015	Hansen	
QA Audit report	**4/6/2015**	**4/13/2015**	**Hansen**	
System Implementation 2	**4/13/2015**	**4/20/2015**	**TEAM**	
Correct AMS firmware bugs	**3/23/2015**	**4/20/2015**	**Jordan**	
Solder BoBs	4/13/2015	4/20/2015	Hansen	
Implement new charging code for PacMan	4/13/2015	4/20/2015	Billy	
Make PacMan SOC persist after shutdown	4/13/2015	4/20/2015	Hansen	
Reliability analysis	4/13/2015	4/20/2015	Jaejoon	
Correct SOC algorithm for PacMan	**3/23/2015**	**4/20/2015**	**Katie**	
Pack Assembly	**4/20/2015**	**4/27/2015**	**TEAM**	
Pack Assembly - PacMan and BoB	4/20/2015	4/27/2015	Jaejoon	
Write code for interfacing with SCADA	4/6/2015	4/27/2015	Billy	
Pack Assembly - high current path	4/20/2015	4/27/2015	Hansen	
Pack Assembly - wiring	4/20/2015	4/27/2015	Katie	
Pack Assembly - Charging	4/20/2015	4/27/2015	Jordan	
ATR and system demo	**4/27/2015**	**5/4/2015**	**TEAM**	
Acceptance test report	**4/27/2015**	**5/4/2015**	**Hansen**	

Reliability demo	**4/27/2015**	**5/4/2015**	**Jordan**	
Aggregate final BoM and Budget analyses	4/27/2015	5/4/2015	Jaejoon	
Write electrical specification documents	4/27/2015	5/4/2015	Katie	
Software debugging / unit testing	4/27/2015	5/4/2015	Billy	
Final presentation	**5/4/2015**	**5/8/2015**	**TEAM**	
Report outlining construction method	**5/4/2015**	**5/8/2015**	**Hansen**	
Final Maintainability report	**5/4/2015**	**5/8/2015**	**Billy**	
Report regarding known issues and bugs	5/4/2015	5/8/2015	Jaejoon	
Fusing and AIR compliance report	5/4/2015	5/8/2015	Jordan	
Archive third party datasheets and manuals	5/4/2015	5/8/2015	Jordan	
Burn final report onto DVD with a nice label	5/4/2015	5/8/2015	Katie	