

GLV Work Breakdown

ECE 492 - Spring 2015

Abstract

This document details the schedule and breakdown of work for the GLV team. If this schedule is followed, the project will stay on task and can be successfully completed.

Revision 2.0.0

GLV Team

Week 4

Group Milestone

- User Manual Update -ALL
- ATP submission 2 -ALL

GLV Battery

- Panel Sketches -ND
- Circuit Sketches -ND

VCI

- Panel Sketches -ZH
- Circuit Sketches -DZ

TSI

- Panel Sketches -AP
- Circuit Sketches -AP
- Safety loop circuit sketch -JF

GLV Hub

- Panel Sketches -ZH

Cockpit Panel

- (waiting on VSCADA)

Side Panel

- Panel Sketches -ZH
- Circuit Sketches -DZ
- Internal Layout Sketch -DZ
- BOM -DZ

Week 5

Group Milestone

- User Manual Update and Submission 2

GLV Battery

- Internal Layout Sketch -ND
- Purchase of Components -ND

VCI

- Internal Layout Sketch -DZ
- Purchase of Components -DZ

TSI

- **TSAL Circuit Schematic** -AP
- TSAL Approval and Submission -AP
- TSAL Component Purchase -AP

GLV Hub

- BOM -ZH
- Internal Layout Sketch -ZH

Cockpit Panel

- BOM -DZ
- Panel Sketches -DZ
- Internal Layout sketch -DZ

Side Panel

- **Panel Drawing** -ZH
- Design Approval and Submission -ZH

Integration

- Connector Inventory -JF
- Connector BOM -JF
- Connector Order -JF

Week 6

Group Milestone

- ATP Final
- User Manual Final
- Draft Maintenance Manual
- Prepare CDR

GLV Battery

- **Panel Drawings** -ND
- Approval of design and submission -ND

VCI

- **Panel Drawings** -DZ
- Approval of design and submission -DZ

TSI

- BOM -AP
- Internal Layout sketch -AP

GLV Hub

- **Panel Drawings** -ZH
- Approval of design and submission -ZH
- Purchase of Components -ZH

Cockpit Panel

- Purchase of components -JF

Side Panel

- (waiting on fab)

Week 7

Group Milestone

- CDR
- ATP Final -DZ

GLV Battery

- Assembly of Components -ND

VCI

- (waiting on fab)

TSI

- **Panel Drawings** -DZ
- Approval of design and submission -DZ
- Purchase of Components -AP
- TSAL Assembly -AP
- **TSAL QA Test** -AP

GLV Hub

- (waiting on fab)

Cockpit Panel

- **Panel Drawings** -JF
- Approval and submission for fab. -JF

Side Panel

- Assembly of Components -ZH
- **QA Tests** -ZH

Week 8

Group Milestone

- VCI/VSCADA/Cockpit Panel Integration

GLV Battery

- **QA Tests** -ND

VCI

- Assembly -DZ
- **QA Tests** -DZ

TSI

- **TSAL completion** -AP
- TSI Assembly -AP

GLV Hub

- Assembly -ZH
- **QA Test** -ZH
- **Completion** -ZH

Cockpit Panel

- (waiting on fab)

Side Panel

- **Completion** -JF

Week 9

Group Milestone

- First Interteam Integration
- **Integration of GLV Battery/Side Panel/GLV Hub/VCI**

GLV Battery

- **Completion -ND**

VCI

- **Completion -DZ**

TSI

- QA Testing -AP

Cockpit Panel

- Assembly -JF
- **QA Test -JF**
- **Completion -ZH**

Week 10

Group Milestone

- **Integration of data lines and VSCADA computer**
- **Integration of Cockpit Panel**

TSI

- **Completion -AP**

Week 11

Group Milestone

- **Complete assembly of all GLV sub-systems**

Week 12

Group Milestone

- ATR
- Maintenance Report Draft
- VSCADA / TSV Interface
- **Demonstration of total communication of GLV system**

Week 13

Group Milestone

- Final Report Draft
- Maintenance Report Final
- 24 hour test

Week 14

Group Milestone

- FDD Presentation
- Final Report