Florida Light and Power

Image Recognition for Pad Mounted Equipment

Work Breakdown Structure

*Senior Design – Team 304:*

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*Date:*

September 24th, 2021

 



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| **#** | **TASK NAME** | **DESCRIPTION** | **PEOPLE** | **X** |
| **1** | **Project Charter** |  |  |  |
| 1.1 | Project Scope | Project description, key goals, primary/secondary market, assumptions, stakeholders | All members | X |
| 1.1.1 | Project Scope Revisions | Review content of project scope | All members | X |
| 1.2 | Code Of Conduct | Mission statement, team roles, communication, dress code, attendance policy, statement of understanding | All members | X |
| 1.2.1 | Code Of Conduct Revisions | Review content of code of conduct | All members | X |
| 1.3 | Submit Project Scope | Submit report for project scope | Any member | X |
| 1.4 | Submit Code of Conduct | Submit report for code of conduct | Any member | X |
| **2** | **Customer Needs** |  |  |  |
| 2.1 | Generate Questions | Brainstorm important and relevant questions | All members | X |
| 2.2 | Gather Information/ Interview | Document information from meeting | All members | X |
| 2.3 | Interpret Data | Decipher the information/data into simple terms |  | X |
| 2.4 | Organize Needs | Categorize needs by description |  | X |
| 2.5 | Determine Importance | Decide most important needs |  | X |
| 2.6 | Submit Customer Needs | Submit report of customer needs | Any member | X |
| **3** | **Work Break Down Structure** |  |  |  |
| 3.1 | Determine Major Deliverables | Check canvas for assignments | Sam, Gage | X |
| 3.2 | Develop Sub Tasks | Look through rubrics and other information for the sub tasks | Jordan | X |
| 3.3 | Complete Structure | Edit chart to fit our needs | Erin, Kent | X |
| 3.4 | Submit Work Break Down Structure | Submit report of work break down structure | Any member | X |
| **4** | **Functional Decomposition** |  |  |  |
| 4.1 | Identify Functions/Subfunctions | Look at needs to determine over function areas, identify corresponding sub-functions | Erin, Kent |  |
| 4.2 | Develop Functional Behavior | Identifies module, inputs, outputs, and functionality | Jordan, Sam |  |
| 4.3 | F.D Flow Chart | Include all functions and subfunctions | Gage, Kent |  |
| 4.4 | Final Report | Refer to rubric to meet all requirements  | All members |  |
| 4.5 | Submit Functional Decomposition | Submit report of functional decomposition | Any member |  |
| **5** | **Post Adviser Meeting 1** |  |  |  |
| 5.1 | Set up Meeting | Select a date and time to meet | Erin | X |
| 5.2 | Attend Meeting | Be on time to meeting | All members |  |
| 5.3 | Create Meeting Minutes | Document important ideas | Sam |  |
| 5.4 | Submit Meeting Minutes | Submit report of meeting minutes | Sam |  |
| **6** | **Targets** |  |  |  |
| 6.1 | List Targets | Each function should have at least 1 target  | All members |  |
| 6.2 | Justify Targets | Derive mathematicallyRefer to standardsRefer to a published reference or references | Gage, Kent, Jordan |  |
| 6.3 | Method of Validation of Targets | Describe the test that will be performed to validate target | Sam, Erin |  |
| 6.4 | Submit Targets | Submit report of targets | Any member |  |
| **7** | **VDR1** |  |  |  |
| 7.1 | Introduce the problem | Project scopeCustomer needs | All members |  |
| 7.2 | Plans to solve the problem | RequirementsFunctional decomposition | All members |  |
| 7.3 | Project management  | Code of conductWBS and budgetOthers | All members |  |
| 7.4 | Review Presentation Slides | Check the content of slides | Sam, Jordan |  |
| 7.5 | Prepare for Questions | Know the details of the project  | All members |  |
| 7.6 | Practice Presentation | Present the presentation | All members |  |
| 7.7 | **Submit VDR1 (For Review)** | Submit VDR1 report for review | Any member |  |
| 7.8 | Submit Final VDR1 | Submit final VDR1 report | Any member |  |
| **8** | **Concept Generation** |  |  |  |
| 8.1 | Brainstorm | Develop 100 concepts | All members |  |
| 8.2 | 5 Medium Fidelity Concepts | Modest attempt, shows minimal functionality | Gage, Erin |  |
| 8.3 | 3 High Fidelity Concepts | Resembles the final concept. Interactive and shows some functionality | Sam, Jordan |  |
| 8.4 | Concept Generation Tools | State the methodical tools used | Kent |  |
| 8.5 | Submit Concept Generation | Submit report of concept generation | Any member |  |
| **9** | **Concept Selection** |  |  |  |
| 9.1 | Pugh Chart | Evaluate multiple concepts against one another | Jordan, Gage |  |
| 9.2 | Decision Matrix | Prioritize concepts with greater objectivity | Kent, Erin |  |
| 9.3 | AHP | Pairwise comparison | Sam, Jordan |  |
| 9.4 | Team discussion | Discuss the data from the charts/matrices | All members |  |
| 9.5 | Final selection | Select a final design based off charts/matrices | All members |  |
| 9.6 | Submit Concept Selection | Submit report | Any member |  |
| **10** | **Post Adviser Meeting 2** |  |  |  |
| 10.1 | Schedule Meeting | Select a date and time to meet | Erin |  |
| 10.2 | Attend Meeting | Be on time to meeting | All members |  |
| 10.2 | Create Meeting Minutes | Document important ideas | Sam |  |
| 10.4 | Submit Meeting Minutes | Submit report for meeting minutes | Sam |  |
| **11** | **VDR2** |  |  |  |
| 11 | **Submit VDR2 (For Review)** | Submit VDR2 report for review | Any member |  |
| 11 | Submit Final VDR2 | Submit final VDR2 report | Any member |  |
| **12** | **Risk Assessment** |  |  |  |
| 12.1 | Identify what can go wrong | List any complications | All members |  |
| 12.2 | Identify Potential Accidents  | List any problems that may happen | Sam, Kent |  |
| 12.3 | Identify Hazards to Avoid  | List any difficulties to refrain from | Jordan, Erin |  |
| 12.4 | Devise Safety Measures and Emergency Responses | Develop safety and emergency regulations | All members |  |
| 12.5 | Submit Risk Assessment | Submit report for risk assessment | Any member |  |
| **13** | **VDR3 (Poster)** |  |  |  |
| 13 | **Submit VDR3 (Poster) For Review** | Submit VDR3 poster for review | Any member |  |
| 13 | Submit FInal VDR3 | Submit final VDR3 report | Any member |  |
| **14** | **Preliminary Detailed Design** |  |  |  |
| 14.1 | Introduction  | Description and requirements of project | Jordan, Kent |  |
| 14.2 | Selected Concept  | Describe selected concept | Sam, Gage |  |
| 14.3 | Preliminary Design | Introduce solution, present implementation approaches | All members |  |
| 14.4 | Summary | Brief synopsis of preliminary detailed design | Erin, Sam |  |
| 14.5 | Submit Preliminary Detailed Design | Submit report for preliminary detailed design | Any member |  |
| **15** | **Post Adviser Meeting 3** |  |  |  |
| 15.1 | Schedule Meeting | Select a date and time to meet | Erin |  |
| 15.2 | Attend Meeting | Be on time to meeting | All members |  |
| 15.3 | Create Meeting Minutes | Document important ideas | All members |  |
| 15.4 | Submit Meeting Minutes | Submit report for meeting minutes | Any member |  |
| **16** | **Spring Project Plan** |  |  |  |
| 16.1 | Document timeline | List important dates  | Erin, Sam |  |
| 16.2 | Document milestones | List of important accomplishments | Gage, Kent |  |
| 16.3 | Document deliverables | List of deliverables | Jordan, Sam |  |
| 16.4 | Submit Spring Project Plan | Submit report for spring project plan | Any member |  |