Introduction [2 min]

- Team Introduction
- Overview of initial project
- Overview of Project

Requirements [3 min]

- Showcase of most important requirements
    - CRD has a list of Milestones that a student should work through throughout their college career. Milestones are made up of events that a student should attend (like career fair) and tasks that a student should complete (like create a resume). For tasks, a student will then upload an artifact (like the created resume) to show completion. This system gives them a guideline on everything they should do in order to be more prepared for their career once they graduate.
    - For faculty like advisors and admins, they would login to the system and be able to see students' progress. They can either view a task and see all of the student submissions or look at an individual student and see all of the tasks they have completed. Previously, faculty didn't really have a way to see which students were on track and what they might have done in order to prepare for their career.
    - [highlighting milestones, tasks/events from the student side and admin/faculty. ignoring other features so this doesn't take too long]
- Initial Domain Model
    - Highlight how it needed to change (quickly show the PHd then the initial CRD one)
- Final Domain Model

Design Work [3 min]

- Mockups (Showcase some mockups)
    - Dashboard
    - Milestones Page
    - Milestone Pages (Admin)

        - These are a few mockups of how the milestone and task pages would look like from an admin's perspective. The admin/faculty workflows and requirements were not as well defined as the student's, but they were still necessary.
- Talk about using Fiverr
- Database Design

Implementation Details [3 min]

- Highlight Tech Stack
    - Why we chose these technologies
- Authentication
    - Current flow [Sequence Diagram]
    - Future integration with Oswego SSO
- Requirements prioritization
    - focus on getting the main pages up (dashboard, milestones, profile, portfolio)
    - next, focus on getting task and event submissions working since that's the main MVP stuff
- Possible google calendar integration

Testing [2 min]

- Automatically runs tests in CI
    - setup early
    - All tests must pass to allow branch to be merged (manually checked)
- Challenges: Code Coverage with class explosions
- In the Future: Create an API test suite

Development Methodology [3 min]

- Outline Methodology
    - Agile, with Retrospectives, Weekly standup, and sprint planning (planning poker)
- Sprint Structure 1 month
- Why it's good for this project

    - requirements don’t really change enough to warrant shorter sprints
    - Amount of work from other classes makes a sprints worth of work over 4 weeks attainable

Metrics [2 min]

- Estimation Accuracy
    - measured week by week but the main number is sprint accuracy
- Defect Density (defects / KLOC)
    - The way we keep track of defect density is to document every defect we encounter and contrast it to the lines of code in the files. Then we convert it into the number of defects per every KLOC.
- Code Coverage
    - automatically generated

Reflection [2 min]

- What went well
- What was problematic
- What we will do to improve

Next Semester [1min]

- Outline plans

Demo [2 min]

- Dashboard Page
    - Scroll through the event carousel
    - *Milestones are just placeholders for now. Will be replaced with upcoming tasks/events
- Portfolio Page
    - Click on resume upload. Show adding PDF. Sending will just throw an error for now
- Milestones

    - Open up some milestones and Tasks
- Authentication?
    -

The interim presentation describes the startup and intial phases of your project. Your objective is to convince the audience that you have launched this project and pursued a solution to this point using an approach that covers all aspects of the project. The audience should clearly feel that the team has coalesced and is moving forward in a disciplined fashion. In addition, the audience should see that the team has addressed significant aspects of the project to date, and has a well-thought out plan for the second term. The combination of these points will give the audience a high-level of confidence that you will be able to successful complete the project during the second term.

An initial emphasis of this presentation is team understanding of the project domain and customer needs. These should be presented in context, in such a way that audience members who are not familiar with the domain will appreciate the problem, and the direction the team is headed with their solution.

There is a large technical content in this talk. It covers strategy for requirements elicitation, design creation, implementation, and testing; along with the results you have to date. Depending on your process methodology, different projects will be at different places with each of those stated aspects of the project. Wherever your team may be, you need to convince the audience that the team got there in a controlled, disciplined fashion, which the team can sustain through the changing activities of the second term.

You will need to specify your development methodology, and justify its use for this project. You will need to describe the team's selection of product and process metrics, and give performance to date. Finally, you should reflect on what worked well, what has been problematic, and what

you learned that will help you improve your team's performance in the second term of the project.

Here are some caution points about the presentation:

- Use appropriate graphics whenever possible. Text slide after text slide will quickly lull the audience into a stupor.
- Flashing through several slides of class diagrams is not very useful to the audience. Discuss the design at the architectural and component level. Move to the class level only to highlight something significant to the project or design.
- Of more importance is the dynamic nature of your design. You might show how one or two features, which are significant because they have some interesting characteristic or maybe were difficult to design, flow through your system. You can use standard sequence diagrams, which go to the object level, but it may be more effective to show the flow at the architectural and component level clearly describing the responsibilities as the feature executes.
- It is a given that every team will do unit testing, integration testing, and acceptance testing. If this is what you will say about your testing and V&V strategy, you are not saying anything. Almost every project has project-specific challenges related to testing. Your discussion should describe the challenges specific to your project, and how you will address them whether that be creating test frameworks, getting data, getting human evaluation of qualitative results, analyzing the results, or whatever the challenges are for your project.
- Do not present a long bullet list of all the latest technologies that you are using for this project. Of more interest to the audience, is how you came to your selections, and why you have the best choices. This discussion should be aimed at technologies for your product and not your development technologies. Development technologies can be part of your discussion of your process selection, if they have any bearing on that discussion.

The timing of the presentations will be strictly controlled. You will have 20 minutes for your presentation, followed by a 4 minute period for questions. If you run over time, the moderator will interrupt you and ask you to stop. The team is being asked to cover a lot of material which

you will be able to do in the allotted time only with careful preparation and practice of the presentation.