

PROJECT1 what can a starship do?

CGT 172-08: UXD FUNDAMENTALS 1; SPRING 2023

PROJECT GOAL

Purdue has a fleet of ~60 running starship robots which are currently used to deliver food ordered at campus dining services to hungry boilermakers. Starship delivery robots are present on hundreds of college and corporate campuses across the US and EU. But they don't all deliver food! What else can a starship do? In this project, you will explore boilermaker attitudes toward starship robots, automated delivery, and design a unique starship delivery system that goes beyond food service and produces new kinds of human-human connections. Possible design spaces include, but are not limited to, supply and manufacturing delivery, message delivery, lost and found, tours, navigation, or even campus-wide games.

SKILLS YOU WILL LEARN AND USE

- **Data collection:** interviews
- **Data analysis:** affinity diagram, scenarios
- **Prototyping:** storyboards, sketches, and wireframes
- **Evaluation:** user feedback

PROJECT STAGES

You will work in teams of three or four to do the following:

1. **Investigate** issues related to automated delivery services like starship robots (background research)
2. **Interview** at least **four** people, 1 per team member (user research). **Audio record** these interviews for your future reference.
3. **Create** ideas for starships *that do not involve food delivery* based on the user desires you find and system insights that you derive.
4. **Iteratively sketch and storyboard** a design solution that changes users' mental models about what a starship can do.
5. **Evaluate** your solution by conducting design evaluation tests with at least three people (1 per team member). Use the results to iterate on and improve your design.

MIDPOINT DELIVERABLES

Your work in progress presentation will be **in class Tuesday, Sept 19th** and you will **upload your materials to Brightspace by midnight**. These materials include:

- Individual reflections on what the design process has been like so far, and
- Group documentation of your ***initial design space, initial scenarios, storyboards, sketches, and initial interview data***.

FINAL DELIVERABLES

All materials are due in digital and physical form by **the due date on Brightspace**. Deliverables include:

- **Presentation** of your final design as a ***pitch presentation in class Thursday October 5th***. Details and required components of this presentation will be discussed in class. **5 min time limit**.
- **Digital Documentation** of your entire design process, including relevant research (background and user), scenarios, storyboards, sketches, user evaluation results, interview audio, and ***a final design accompanied by a design rationale***. This documentation will be created collectively by all team members, and should include multiple forms of representation (e.g., sketches, text, photos, video) that communicate your thought process, narrative that explains the connections between elements of the process, ***and*** final outputs to an external audience.
 - ***DELIVERABLES: Upload a pdf of your documentation and presentation slides to Brightspace by October 6th, 11:59pm***. File naming convention; *sec-time_team#_project1_doc_last names of team members.pdf* and *sec-time_team#_project1_slides_last names of team members.pdf*