

## R2: Design Revision

### Overview

The Design Revision assignment is intended to provide an opportunity to improve the project's design plan in order to provide the foundation for the project's execution. It should incorporate all feedback received by students on the Design Draft assignment. Like the draft, the Design Revision document should include figures to help the reader understand the design and no more than 1500 words, excluding captions and references. Any outside sources used to build the report, and any outside tools the team will be using, should be properly cited in ACM or IEEE format.

Students *should not consider this plan to be a final set of requirements*, but rather a *roadmap*; it is important to plan, even knowing that there will be necessary deviations from it. The goal of the plan is to provide a target for work and assist in proper scoping of the project. When deviations occur, students must follow up with their mentor (faculty member or course staff member) in order to adjust the plan.

### Specification

The requirements for the revision reflect those from the Design Draft and are repeated here briefly for reference.

#### Introduction

The revision should incorporate an introduction describing the project's need, value, and context. This should include a discussion of the problem domain, purpose, prior art, risks, and impact on society. All sources should be properly cited. Benefits, drawbacks, and limitations should be carefully and honestly noted.

#### Statement of Work

The team should clearly identify and quantify work to be completed, including performance expectations and measurements. This section should also include features, milestones, timelines, and persons to complete tasks.

#### Deliverable Artifacts

Identify artifact(s) to be delivered upon project completion, including hardware, software, and documentation. Include descriptions of each artifact's purpose along with plans for its dissemination and maintenance.

#### Mockups

Include mockups of interfaces, subsystems, and any networking elements to be incorporated into the project. Mockups should also include storyboards for software and draft schematics for hardware.,

### Revisions

The submission must include revisions of the previous document based on feedback. Any reports or sections without appropriate revisions will be uncredited (marked zero) unless no revisions were recommended.

### Submissions

Students will submit a PDF document on Canvas.