ELEC 390 – ORAL ASSESSMENT

This assessment aligns with the following course learning outcomes:

- **CLO 3**: Equitably interact and collaborate with multidisciplinary teams with professional group dynamics.
- **CLO 4**: Reflect on one's own and others' skills inventory and performance.
- **CLO 7**: Apply engineering design theory and methodology to the project.
- **CLO 8**: Design an integrated software/hardware system to meet the requirements and specifications.

Overview

The oral assessment consists of two components: team and individual. In the team component you will reflect as a team of your teams' strengths and weaknesses to a member of the instructional team. In the individual component you will discuss and demonstrate your technical knowledge and contributions to the project.

Team Component (4 minutes per team)

This oral assessment aims to evaluate your team's ability to interact and collaborate with each other while demonstrating professional group dynamics. Additionally, the assessment will allow you to reflect on your own and others' skill sets and performance in a team setting. Each student will discuss how they are collaborating to achieve the desired project outcomes. The discussion will focus on how tasks are distributed and managed, how challenges are addressed, and how conflict is resolved.

Individual Component (2 minutes per person)

Following the teamwork discussion, each student will engage in a brief oral assessment with a member of the instructional team where you will demonstrate your knowledge of engineering design theory and how you personally applied this knowledge to the system developed by your team. You should come prepared to speak specifically to course learning outcomes 4, 7 and 8.

Assessment Instructions

Oral assessments will be scheduled and conducted with a member of the instructional team during Week 7 of the course.

Grading

The oral interview is an individual project and is worth **10%** of your ELEC 390 final grade. See grading rubric for marking expectations.

Non-Compliance Penalties

Missed oral assessments will result in a 5% penalty of overall course grade. However, make-up assessments can be scheduled with the approval of the Section Leader

Grading Rubric

Criteria	Excellent (4)	Proficient (3)	Satisfactory (2)	Needs Improvement (1)	Unsatisfactory (0)
Reflective Practice [CLO 4]	Provides a comprehensive and insightful reflection on both personal and team skills. Identifies strengths, weaknesses, and areas for improvement with clear examples.	Reflects thoughtfully on personal and team skills, identifying key strengths and areas for growth.	Reflects on personal and team skills with some insight, identifying general strengths and weaknesses.	Provides limited reflection on personal and team skills, with vague or incomplete identification of strengths and weaknesses.	Reflection on personal and team skills is absent or superficial, with no clear identification of strengths or weaknesses.
Teaming (Team Style, Equity, Conflict Resolution, Leadership) [CLO 3]	Demonstrates an inclusive and collaborative team style that effectively engages all members, promotes equity, and values diverse perspectives. Successfully identifies and resolves conflicts through constructive dialogue. Shows strong leadership by clearly delegating tasks, fostering team cohesion, and motivating members to achieve shared goals.	Displays a collaborative team style that engages most members and promotes fairness. Resolves conflict effectively, with minor issues. Shows leadership by delegating tasks and maintaining team cohesion but may lack in some areas.	Demonstrates a generally positive team style with some attempts at inclusion. Resolves conflict with moderate success but may avoid or inadequately address certain issues. Displays basic leadership but lacks consistency.	Shows a limited or inconsistent team style with minimal attempts at equity and inclusion. Has difficulty resolving conflicts, often relying on external intervention. Displays weak leadership with unclear delegation of tasks.	Fails to demonstrate effective team collaboration. Lacks equity, often excluding members or perspectives. Unable to resolve conflicts constructively and shows little to no leadership or coordination within the team.
Description of Design Process [CLO 7]	Provides a detailed, logical, and clear description of each stage of the design process, including ideation, development, prototyping, testing, and refinement. Demonstrates critical thinking, creativity, and problem-solving.	Describes the main stages of the design process with clarity and logical flow. Includes most elements like ideation, development, testing, and refinement. Shows understanding of decisions but lacks minor details.	Offers a general description of the design process, covering some stages but missing others. Demonstrates a basic understanding of the process but lacks clarity and detail when explaining decisions or iterations.	Provides an incomplete or unclear description of the design process. Covers a few stages with minimal detail, lacks logical flow, and shows limited understanding of decision-making or problem-solving.	Fails to provide a coherent description of the design process. Missing key stages, lacks clarity, logical flow, and explanation of decisions or iterations. Shows little to no understanding of the process.
System Design [CLO 8]	Demonstrates a comprehensive understanding of both software and hardware components, leading to an innovative and efficient integrated system design with thorough justification for design choices. Alternatively, if design requirements and specifications are not met, adequate and justifiable reasoning is provided in addition to alternate specifications.	Exhibits a strong grasp of software and hardware integration, resulting in a functional system that meets all specified requirements. Design decisions are well justified, showing a clear understanding of the project needs.	Shows a good understanding of the necessary software and hardware components. The integrated system meets most requirements and specifications.	Demonstrates a basic understanding of software and hardware integration. The system design addresses some requirements and specifications but lacks thoroughness.	Lacks a coherent understanding of integrating software and hardware components. The design does not meet the specified requirements and justification for design choices.