

 **ECS Student Project Innovation Expo 2025**
Final Round Judging Rubric

Total: 50 Points (+ up to 5 Bonus Points)

Judges will evaluate each team based on the following five core categories during the Expo presentation.

1. Problem Relevance and Real-World Impact (10 pts)

<p>Category Description</p> <ul style="list-style-type: none"> Clearly defines the problem being addressed Demonstrates relevance and importance in a real-world context Identifies potential users or beneficiaries Articulates potential societal, environmental, or industry impact 	<p>Scoring Guide:</p> <ul style="list-style-type: none"> 9–10: Exceptional clarity and importance; high potential for positive impact 7–8: Strong relevance; clearly articulated real-world application 5–6: Well-defined problem with some relevance and value 3–4: Basic problem definition; limited real-world context 0–2: Vague or irrelevant problem with unclear impact
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2. Design Process and Engineering Principles (10 pts)

<p>Category Description</p> <ul style="list-style-type: none"> Demonstrates a thoughtful and systematic design process Apply appropriate engineering, scientific, or computational principles Addresses constraints, trade-offs, and rationale for design decisions Includes testing, iteration, or optimization efforts 	<p>Scoring Guide:</p> <ul style="list-style-type: none"> 9–10: Exemplary application of design thinking and technical rigor 7–8: Well-documented design approach and solid technical basis 5–6: Reasonable process with evidence of technical thought 3–4: Basic design process; minimal use of engineering principles 0–2: No clear process or technical grounding
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3. Technical Execution and Functionality (10 pts)

<p>Category Description</p> <ul style="list-style-type: none"> Quality, completeness, and functionality of the prototype or system Evidence of working features or subsystems Craftsmanship, performance, and integration quality Includes testing, iteration, or optimization efforts 	<p>Scoring Guide:</p> <ul style="list-style-type: none"> 9–10: Highly functional, polished, and technically impressive 7–8: Mostly complete and well-executed system 5–6: Key features operational; demonstrates core functionality 3–4: Some components are functional; limited integration 0–2: Largely non-functional or highly conceptual
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4. Presentation and Communication (10 pts)

Category Description <ul style="list-style-type: none">• Clear, structured, and engaging presentation• Effective use of visual aids (poster, prototype, media)• All team members contribute professionally• Q&A handled confidently and accurately	Scoring Guide: <ul style="list-style-type: none">• 9–10: Professional, polished, and highly effective communication by the team• 7–8: Confident, engaging, and well-structured delivery• 5–6: Clear presentation with some strong points• 3–4: Inconsistent delivery; weak visuals or explanation• 0–2: Confusing or disorganized presentation
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5. Project Innovation and Originality (10 pts)

Category Description <ul style="list-style-type: none">• Introducing a novel idea, solution, or application• Offers a unique perspective or creative twist on existing approaches• Demonstrates thinking beyond conventional boundaries	Scoring Guide: <ul style="list-style-type: none">• 9–10: Exceptional creativity; a standout idea with breakthrough potential• 7–8: Strong originality and inventive thinking• 5–6: Noticeable creativity or unique angle• 3–4: Some original elements; limited innovation overall• 0–2: Lacks novelty; standard or widely-used concept
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Bonus: Teamwork, Passion, and Professionalism (+ up to 5 pts)

Awarded for teams that demonstrate: <ul style="list-style-type: none">• Exceptional collaboration and team dynamics• Enthusiasm, initiative, and dedication to their project• Professional conduct and respectful communication• Above-and-beyond effort or presentation polish	Scoring Guide: <ul style="list-style-type: none">• 5 pts: Outstanding professionalism, passion, and synergy• 3–4 pts: Strong energy and collaboration• 1–2 pts: Moderate enthusiasm or teamwork displayed• 0 pts: No notable contribution beyond expectations
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