

North Dakota Society of Professional Engineers: Project Design Award			
<b>Project year</b>		<b>NDSPE Chapter</b>	
<b>Project submitted by:</b>			
<b>Project title:</b>			
<b>Judged by:</b>			
Judging area		Judging criteria	Points
<b>1. Project detail: Information, presentation, design resources, project costs/budgets</b>			<b>30</b>
a. Project report ( <i>10 pts</i> )	Neatness, clarity, organization/arrangement, information content, graphics		
b. Design resources ( <i>10 pts</i> )	Extent to which technology was used in the design process, including but not limited to, design calculations, problem modeling, project modeling, testing, graphics, client-presentation		
c. Project cost detail ( <i>10 pts</i> )	Extent to which the project costs were clearly detailed, budgets established, degree to which the project was completed within budget		
<b>Subtotal points:</b>			
<b>2. Engineering design: Implementation, originality, ingenuity</b>			<b>45</b>
a. Effective implementation of the Engineering process ( <i>15 pts</i> )	Use of engineering design methodology: a) Identify the problem; b) research the problem; c) consider possible alternatives; d) plan the design; e) model & test the design; f) improve/redesign as needed		
b. Design originality ( <i>15 pts</i> )	Extent to which the project design is distinctly unique; original in scope and concept; distinguishable from the norm		
c. Design ingenuity ( <i>15 pts</i> )	The degree to which ingenuity was evident in the design approach, design concepts, design completion; application of existing design solutions in new and ingenious ways, or the application of new design concepts not commonly seen or used		
<b>Subtotal points:</b>			

<b>3. Design aesthetics and environmental impact</b>		<b>20</b>
a. Project aesthetics <i>(10 pts)</i>	Extent to which project aesthetics were considered and addressed in the project design; the use of technology and resources that resulted in an aesthetically-appealing project	
b. Environmental impact <i>(10 pts)</i>	Extent to which the project impacted the environment, both during construction and as a final project; design efforts taken to mitigate environmental impact	
<b>Subtotal points:</b>		
<b>4. Project conclusion: Functionality, usefulness, challenges overcome, client satisfaction</b>		<b>30</b>
a. Project functionality <i>(10 pts)</i>	Extent to which the completed project addresses the identified problem and/or desired outcome; how useful is the completed project?	
b. Strength of design strategy <i>(10 pts)</i>	Extent to which the project outcome is a reflection of the design strategy, design efforts, and design approach; did the completed project meet all expectations to every level?	
c. Project challenges/ obstacles <i>(10 pts)</i>	Degree of difficulty and unforeseen challenges that were encountered during the design and construction process of the project, and the extent to which those challenges and obstacles were overcome by the design team, and the impact that had on the project outcome, budget, and completion time	
<b>Subtotal points:</b>		
<b>Total Points Possible:</b>		125
<b>Total Points Scored:</b>		