Project Title: Podium Design Project

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Area: Mechanical Engineering

Sponsor: Triton Metal Products

Triton Metal Products is a manufacturer based in Hamilton, Indiana. They provide fabrication services primarily in the automotive industry. Continually seeking to raise the bar, Triton Metal Products embarks on a company-wide brand development project and branches into proprietary product lines. This project aims to design a new podium that leverages new opportunities for Tube Laser technology capabilities to reduce the number of welding points, pins, tabs, and assembly steps. The podium family must have a height range of 3 to 6 feet and support a minimum weight of 1200 pounds. The unit must be user-friendly, easily transportable, operable under variable environmental conditions, and require minimal maintenance. The group is also investigating the possibility of adjustable height and different ladder configurations as additional considerations to overall design.

The design has been budgeted at \$5,000 for development and prototype testing a new podium design in line with the Triton Metal Products manufacturing capabilities. This will cover all the materials that are not supplied by the sponsor such as special fittings, motors and other equipment.