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Lighter Weld Guns This year's project will focus on a cost-saving improvement to a manufacturing process in the bodyshop. The focus of this project is to design a new weld gun structure with lower mass and cost within the General Motors Weld Gun Performance Standards. The standards can be questioned at any time during the design process. The material choice is up to the team as long as the weld gun has a path for the electrical current. The team will be encouraged to use the IPD process to identify non-traditional materials and designs. A lighter weight weld gun would reduce the size of the robots, leading to smaller footprints within the body shop. Overall, this project could lead to a large cost reduction for the automotive body shop. Students on these teams will be required to travel to GM at the end of each semester (all travel expenses paid) to present to GM executives.