MONTANA STATE UNIVERSITY

Department of Mechanical and Industrial Engineering

ETME 499R Capstone: Mechanical Engineering Design II

TECHNICAL ADDENDUM

Battlebot Team 3

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Prepared to Partially Fulfill the Requirements for EMEC 499R

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Manufacturing and Assembly

The Battlebot was designed in a way it could be easily manufactured without more complicated parts. First, the frames of the Battlebot were fabricated by cut the aluminum tube into desired length and welded together. Then for the weapon system, 5/8” steel rod was taken and cut into 3 pieces of length of 7.5 inches. Then the bars were turned down on both ends to a radius of 1/2” to fit into the weapon hub. The middle axle bar was made up of 1/2” steel rod cut into a length of 9.5 inches and turned down on both ends to a radius of 1/4” to a length of 1 inch. Similarly, all the four-wheel axles were fabricated from the 1/2" steel rod turned and milled using lathe and mill machines.

Testing

Revised Drawing Package