Senior Project Deliverable Contract Project Name: Independent Recycling Sorter (IRS)

School Year: 2017-2018 MP: 3 Date: 2/21/18 Team #: 09

Students: Abhishek Hariharan and Jonathan Wong Instructor: Mr. Enzo Paterno

Initial: \_\_\_\_\_\_\_ Initial: \_\_\_\_\_\_\_ Initial: \_\_\_\_\_\_\_ 

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| Hardware Delivery | Firmware/Software delivery | Student |
| * Vector Board for wiring/electrical components * 3D-printed packaging to accommodate motors and electronics * Mechanical Sorting Mechanism * Standalone mount * 4 Recycling Bins | * Adjust motor code so motors can spin backwards * Adjust motor code for a specific number of steps as needed | * Both |

Demo Details (Include Packaging if any):

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| Sequence # | Demo Description (Action/Response) | Worked (0 → 100%) |
|  | Place object on top of platform in a stand-up position  LED will turn on if placed correctly (stand-up position seated on the force-sensitive resistor)  Mechanical sorting occurs  Object drops into the correct labeled bin (Milk Carton, Water Bottle, Aluminum Can, or Rejected Item)  Repeat with different items once the LED turns off (indicating when another input is acceptable) |  |

Signatures:

Student 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 

Student 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 

Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 