**Test Case Template-- ECE 458 Spring 2020**

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| Test Name | TV Remote | | Test Number | 6 | | | |
| Requirement(s) Tested | | 7 & 7.1 | Verification Method | I | A | D | T |
| Test Setup  -Include HW or SW Versions  -Attach Diagrams as appropriate | | 1. Raspberry Pi 3B+    1. OS: Raspbian v10 2. Connections to Pi:    1. USB Sound Card into USB port    2. HDMI cable into HDMI port    3. Micro USB into Micro USB port    4. Ethernet cable into Ethernet port    5. Keyboard & Mouse into USB ports    6. 3.5mm cable into Microphone (Pink) port of USB soundcard    7. IR Remote shield connected to pins 1 to 26 3. Connections to TV:    1. Micro USB cable into USB port    2. 3.5mm cable into 3.5mm headphone port    3. Power cable into power port    4. Antenna into Coaxial port 4. Other Connections:    1. Connect HDMI cable to secondary Monitor    2. Connect TV Power cable to power outlet 5. Other Materials:    1. Westinghouse TV remote 6. TV Settings:    1. Powered On    2. TV Input set to Raspberry Pi 3B (HDMI) | | | | | |

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| Test Step | Action (Attach test data, diagrams, etc. as appropriate) | Expected Result | Observed Result | Pass/  Fail |
| 1. | Document cost of competitors products. E.g. **MuteMagic, Mutr, etc.** | Costs average in range of $50-$100 | *Incomplete* | *Incomplete* |
| 2. | Sum the **cost of resources + manufacturing cost** of MuteBot. | Cost sums in range $40-75 | *Incomplete* | *Incomplete* |
| 3. | Multiply build cost by **“Sell price” factor** to calculate retail cost | Retail cost falls within $50-$100 range. | *Incomplete* | *Incomplete* |

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| Comments  Since the enclosure is incomplete this results in an unknown value for the overall product. Time and cost of material has yet to be evaluated. |

Date Test Engineer Witness