**Breakdown List**

**Tabletop Design**

**Weight**

Target- 100

 Actual- 102.5

 Box- 52 lbs

 Mounting Hardware- Aluminum, brackets available from Pelican

**Gunner Handle**

 Mounting Linkage Components – 2

 Degrees of Freedom – 2

 Durability – high

 Adjustable height - yes

 Placement issues (tipping) – minimal, only when handle is deployed and straps are not engaged

**Monitor**

 Mounting Linkage Components – 1

 Degrees of Freedom –1

 Rigidity- medium-high. Monitor can slight on track

Protection (from gunner handle, impact force (sway space))- Good, the monitor will have a layer of foam and a layer of hard plastic protecting it from other components, and a stop will prevent the handle from crashing into it.

**Computer**

 Mounting Hardware – Screwable bracket

 Air Ventilation – high, two lids in addition to at least an inch of space on every side with exhausts and intakes greatly aid ventilation

 Ease of Access – med-high, computer will have to be removed in order to gain access to USB and audio ports

**Extra Components**

 Location of headset, keyboard, mouse – bagged in lid during transport

 Issues with wiring?- Minimal, as computer is located next to monitor

**Case**

 Durability – High, steel reinforcements on side

 Sliding – Straps will greatly reduce the risk of sliding

 Portability – Medium. Wheeled, but requires table and too heavy for one person to lift

 User Convenience– medium. Easy to setup, breakdown and open for repairs, but must be lifted onto table.

 Manufacturing - Excellent

**Box on Floor Design**

**Weight**

Target- 100lb

 Actual- 73.1lb + mounting hardware

 Box- 34.1

 Mounting Hardware- less than 30lb

Center of Gravity- within the bounds of the box support structure with all components fully extended

**Gunner Handle**

 Mounting Linkage Components – 6

 Degrees of Freedom – 2

 Adjustable height - Yes

 Placement issues (tipping) - Little

**Monitor**

 Mounting Linkage Components – 6

 Degrees of Freedom – 1

 Rigidity- rigid

 Protection (from gunner handle, impact force (sway space))- large

**Computer**

 Mounting Hardware – bracket

 Air Ventilation – Adequate

 Ease of Access – Simple

**Extra Components**

 Location of headset, keyboard, mouse – in foam inserts or bag in lid

 Issues with wiring?- none foreseeable

**Case**

 Durability – made in same manner as other pelican cases, no metal reinforcements in sides

 Sliding – minimal

 Portability – one person transit once on ground

 User Convenience - little leg room

 Manufacturing -

 Requires design or adaptation of internal rack system and shock mounts

 Bracket for handle must be custom made

 Monitor and computer brackets can be “off the shelf” components

 Computer bracket can be adapted from “off the shelf” components