Weekly Report #6

Team 6: Traumatic Brain Injury Reducing Army Combat Helmet
Kristin Ohanian
Jim Veronick
Damian Frankiewicz
Overall Design

- Chin Guard
- Neck Guard
- EPS layer
- Kevlar shell
Completed Work

- Cut spindle-type shell with jigsaw
- Sanded to finish edges
- Made additional fabric cuts for 3\textsuperscript{rd} shell prototype
Completed Work

- Five 14 inch EPS cubes were ordered for inner lining
- Researched best ways to cut and shape these blocks into our specific shape needed
Completed Work

- Ordered a ‘freehand router’ hotwire tool which will allow for cutting and shaping the EPS into a desired shape

- Looked into purchasing a suspension system and padding from Gentex

- Contacted Snell about helmet testing
Completed Work

• Made chinguard mold
Project Review

- **Successes:**
  - Spindle-type shell looks very good

- **Issues:**
  - How well will we be able to cut the EPS?
  - EPS has not arrived yet (~2 weeks)
  - How well will we be able to shape/mold appropriate chinguard?
    - Will it have appropriate clearance
Future Work

- **Next week**
  - Need to start cutting EPS immediately once tools arrive
  - Need to finish second spindle shell
  - Need to finish chinguard mold and start composite prototypes

- **2 Weeks**
  - Completed chinguard
  - Completed neckguard mold
  - Final EPS molded

- **1 Month**
  - Have chin guard & neck guard made & installed
  - EPS made and ready for install
  - Padding ordered and installed
Timeline
Budget

- Estimated Total Cost ~$1200
- Spent so far:
  - $671 on Kevlar and supplies
  - $30 on recently ordered supplies
  - $100 EPS
  - $100 Freehand router hotwire tool
  - Total: $901
Hours Worked

- Jim – 20 hrs
- Kristin – 11 hrs
- Damien – 23.5 hrs