Weekly Report #5

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

- Second shell
  - “pinwheel technique”
Completed Work

- Expanded Polystyrene
  - Can purchase block
    - Cut shape with hot wire
  - Send helmets out to be filled
    - Requires CAD drawing
  - Researched companies
    - Decide on one
Completed Work

- Paint
  - Military uses CARC: Chemical Agent Resistant Coating
    - Multiple paints and solvents
    - Carcinogenic
    - Expensive
  - Epoxy Paint
    - Requires Primer
    - Approximately $90
    - Paint Sprayer would be optimal ~$50
Project Review

- **Successes**
  - Excellent Second Shell

- **Issues**
  - Draped Kevlar hardened crooked
Future Work

- **Next week**
  - Final Shell
  - Mold Neck Guard
  - Decide on Paint

- **1 Month**
  - Install EPS
  - Install Padding
  - Install Suspension

- **2 Weeks**
  - Mold Chin Guard
  - Create Neck Guard
  - Order EPS
  - Order Padding/Suspension
Budget

- Estimated Total Cost ~$1200
- Spent so far:
  - $685 on Kevlar and Supplies
  - $35 on Mold Supplies
  - Total: $720
Hours Worked

- Jim – 12 hours
- Kristin – 11.5 hours
- Damian – 11 hours