USMA EECS AIAD BRIEF

Advance Individual Academic Development

LTC Scott Lathrop
Purpose

• Intellectual enrichment outside of classroom

• Develop critical thinking skills

• Work side-by-side with industry and military leaders in science and engineering

• EECS outreach

• Potential for capstone design or individual study
Some of the EECS Outstanding Sponsors

• Application Development
  ARL (Adelphi, MD)
  Boeing (Huntington Beach, CA)
  IBM Research (Hawthorne, NY)

• Supercomputer/Networking Systems
  HPCMO (Fairbanks, AK, Monterey, CA & Aberdeen, MD)
  Cisco (Research Triangle Park, NC)
  ARDEC (Picatinny Arsenal, NJ)
  Battle Lab (Ft. Gordon, GA)

• Simulations
  DTRA (Ft. Belvoir, VA)
  OneSaf (Orlando, FL)
  STTC (Orlando, FL & Marina Del Ray, CA)
Some of the EECS Outstanding Sponsors

- **Information Assurance**
  - ARL (Adelphi & APG, MD)
  - NRO (Washington, DC)
  - NSA (Ft. Meade, MD and CO)

- **Robotics/Lasers**
  - iRobot (Burlington, MA)
  - QuinetiQ (Waltham, MA)
  - Mitre (McClean, VA)
  - TARDEC (Warren, MI)

- **Radios/Signal Processing/Space**
  - Boeing (El Segundo, CA)
  - CERDEC (Ft. Monmouth, NJ)
  - MIT/ Lincoln Labs (Boston, MA)
  - NASA (Houston, TX)
  - NRL (Stennis Space Center, MS)
Some of the EECS Outstanding Sponsors

- **International**
  - China (robotics project and cultural immersion)
  - Germany (EUCOM Network Center)
  - Tunisia (robotics project and cultural immersion)
2010 totals

- 95 Cadets
- 64% EECS Majors
- 30% Rising Sophomores
- 10 Faculty Members
- 5 Countries (China, England, Germany, Tunisia, Uganda)

<table>
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<tr>
<th>Year</th>
<th>Available/Filled (GOVT &amp; DOD)</th>
<th>Available/Filled (Industry)</th>
<th>% of eligible EECS&amp;IT Majors Filling Slots</th>
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<tbody>
<tr>
<td>2010</td>
<td>145/77 23/18 45%</td>
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<tr>
<td>2009*</td>
<td>88/43 25/11 32%</td>
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<tr>
<td>2008</td>
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<td>10/8 45%</td>
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*Change in the summer schedule in 2009 contributed to the drop in numbers.
AIAD Timeline

September – October: Initial coordination for following summer AIADs & pre-screen for Top Secret AIADs

December: Final sponsor commitments for following summer AIADs

January: Upload project descriptions from sponsors to cadet information web-application

February: Cadets volunteer for advertised AIAD opportunities & rank order top four preferences

February: Coordinators interview cadets and determine tentative AIADs assignments
March – May: Cadets and sponsors notified, travel arranged, funding received

Late May – Early August: Execution
Summer Schedule: Late May– Early August

Average AIAD length: **3 work weeks**