The 14\textsuperscript{TH} Annual Intelligent Ground Vehicle Competition

Selfridge Air National Guard Base
Harrison Twp, Michigan
June 10\textsuperscript{TH} - 12\textsuperscript{TH}, 2006

\textbf{Autonomous Challenge}

1. Virginia Polytechnic Institute and State University  Team 2: Gemini
Distance: 730 feet (full course)
Time: 3 minutes 39 seconds
Prize: $ 3,000

2. Hosei University  Team: Omnix 2006
Distance: 561
Time: 3 minutes 33 seconds
Prize: $ 500

3. Virginia Polytechnic Institute and State University  Team 3: Johnny-5
Distance: 555 feet
Time: 2 minutes 55 seconds

4. University of Detroit Mercy  Team 2: Thor
Distance: 551 feet
Time: 5 minutes
Prize: $ 250

5. Bob Jones University  Team: Adam II
Distance: 396 feet
Time: 5 minutes

6. Bluefield State College  Team: Anassa II
Distance: 349 feet
Time: 2 minutes 29 seconds

7. University of Central Florida  Team: Calculon
Distance: 294 feet 6 inches
Time: 5 minutes

8. Cedarville University  Team: Yellow Jacket II
Distance: 289 feet
Time: 1 minute 55 seconds

9. University of Minnesota - Duluth  Team: MARVIN III
Distance: 275 feet
Time: 5 minutes
10. Lawrence Technological University  
   Team: H2Bot  
   Distance: 186 feet  
   Time: 5 minutes

11. University of Alberta  
   Team: ARVP  
   Distance: 169 feet  
   Time: 2 minutes 30 seconds

12. Brigham Young University  
   Team: Y-CLOPS  
   Distance: 154 feet  
   Time: 52 seconds

13. University of Colorado - Denver  
   Team: PUMA  
   Distance: 138 feet  
   Time: 1 minute 50 seconds

14. University of Michigan - Dearborn  
   Team: Raptor  
   Distance: 71 feet  
   Time: 46 seconds

15. École de technologie supérieure  
   Team: RS3  
   Distance: 63 feet 6 inches  
   Time: 2 minutes 12 seconds

16. University of Texas – Austin  
   Team: RASlow  
   Distance: 49 feet  
   Time: 1 minute 50 seconds

17. University of Cincinnati  
   Team: Bearcat Cub  
   Distance: 48 feet 6 inches  
   Time: 1 minute 52 seconds

18. Elizabethtown College  
   Team: WunderBot III  
   Distance: 46 feet  
   Time: 53 seconds

19. California State University - Northridge  
   Team: MI 1  
   Distance: 38 feet  
   Time: 2 minutes 33 seconds

20. Trinity College  
   Team: ALVIN VII  
   Distance: 36 feet 6 inches  
   Time: 1 minute 13 seconds

21. University of Wisconsin – Madison  
   Team: WIRED  
   Distance: 29 feet  
   Time: 20 seconds
22. University of Missouri - Rolla
   Team: Optical Prime
   Distance: 27 feet
   Time: 9 seconds

23. University of Michigan - Dearborn
   Team: Autonomous Prime
   Distance: 15 feet
   Time: 25 seconds

24. Oakland University
   Team 1: X-MAN
   Distance: 13 feet 6 inches
   Time: 26 seconds

25. Virginia Polytechnic Institute and State University
   Team 1: Chimera
   Distance: 6 inches
   Time: 17 seconds

26. Georgia Institute of Technology
   Team: Robojackets
   Distance: 0 feet
   Time: 30 seconds

27. University of Delhi
   Team: YANTRAVID
   Distance: - 6 feet 6 inches
   Time: 12 seconds

28. Case Western Reserve University
   Team: Roberto
   Distance: - 10 feet
   Time: 5 seconds

**Design Competition**

**Finalist**
1. Virginia Polytechnic Institute and State University
   Team 1: Chimera
   Score: 728.5/800
   Prize: $ 2,000

2. Virginia Polytechnic Institute and State University
   Team 2: Gemini
   Score: 724.5/800

3. Lawrence Technological University
   Team: H2Bot
   Score: 694.25/800
   Prize: $ 1,500

4. University of Wisconsin – Madison
   Team: WIRED
   Score: 655.25/800
   Prize: $ 1,000
5. Bluefield State College  
Team: Anassa II  
Score: 650.75/800  
Prize: $ 800

6. Hosei University  
Team: Omnix 2006  
Score: 647/800  
Prize: $ 700

**Design Group A**

1. Virginia Polytechnic Institute and State University  
Team 1: Chimera  
Score: 755/800

2. Virginia Polytechnic Institute and State University  
Team 2: Gemini  
Score: 738/800

3. Lawrence Technological University  
Team: H2Bot  
Score: 704.5/800

4. Virginia Polytechnic Institute and State University  
Team 3: Johnny-5  
Score: 635/800

5. University of Detroit Mercy  
Team 2: Thor  
Score: 634.5/800

6. University of Missouri - Rolla  
Team: Optical Prime  
Score: 634/800

7. University of Alberta  
Team: ARVP  
Score: 633/800

8. École de technologie supérieure  
Team: RS3  
Score: 595.5/800

9. California State University - Northridge  
Team: MI 1  
Score: 568.5/800

10. Oakland University  
Team 2: Zeus  
Score: 560.5/800

11. University of Texas – Austin  
Team: RASlow  
Score: 505/800

12. Oakland University  
Team 1: X-MAN  
Score: 500/800

13. Georgia Institute of Technology  
Team: Robojackets  
Score: 454/800
<table>
<thead>
<tr>
<th>Rank</th>
<th>University/Mobile</th>
<th>Team</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.</td>
<td>University of Colorado - Denver</td>
<td>PUMA</td>
<td>431/800</td>
</tr>
<tr>
<td>15.</td>
<td>University of Delhi</td>
<td>YANTRAVID</td>
<td>392/800</td>
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**Design Group B**

<table>
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<th>Rank</th>
<th>University/Mobile</th>
<th>Team</th>
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<tbody>
<tr>
<td>1.</td>
<td>Bluefield State College</td>
<td>Anassa II</td>
<td>663.5/800</td>
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<tr>
<td>2.</td>
<td>University of Wisconsin – Madison</td>
<td>WIRED</td>
<td>662.5/800</td>
</tr>
<tr>
<td>3.</td>
<td>Hosei University</td>
<td>Omnix 2006</td>
<td>659.5/800</td>
</tr>
<tr>
<td>4.</td>
<td>Brigham Young University</td>
<td>Y-CLOPS</td>
<td>657.5/800</td>
</tr>
<tr>
<td>5.</td>
<td>University of Central Florida</td>
<td>Calculon</td>
<td>595/800</td>
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<tr>
<td>6.</td>
<td>Trinity College</td>
<td>ALVIN VII</td>
<td>584.5/800</td>
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<td>7.</td>
<td>University of Cincinnati</td>
<td>Bearcat III</td>
<td>561/800</td>
</tr>
<tr>
<td>8.</td>
<td>Bob Jones University</td>
<td>Adam II</td>
<td>555/800</td>
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<td>9.</td>
<td>Elizabethtown College</td>
<td>WunderBot III</td>
<td>526/800</td>
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<td>10.</td>
<td>Cedarville University</td>
<td>Yellow Jacket II</td>
<td>520.5/800</td>
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<td>11.</td>
<td>Kettering University</td>
<td>Bulldog II</td>
<td>508/800</td>
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<td>12.</td>
<td>Case Western Reserve University</td>
<td>Roberto</td>
<td>499.5/800</td>
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<td>13.</td>
<td>Rochester Institute of Technology</td>
<td>Hardcore III</td>
<td>485/800</td>
</tr>
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</table>
14. Arizona State University  
Score: 481.5/800  
Team: MoViT

15. University of Minnesota - Duluth  
Score: 469.5/800  
Team: MARVIN III

16. University of Michigan - Dearborn  
Score: 466.5/800  
Team: Autonomous Prime

17. University of Michigan - Dearborn  
Score: 442.5/800  
Team: Raptor

**Navigation Challenge**

1. Virginia Polytechnic Institute and State University  
Waypoints: 9/9  
Time: 2 minutes 8 seconds  
Prize: $ 2,5000  
Team 3: Johnny-5

2. University of Alberta  
Waypoints: 9/9  
Time: 2 minutes 20 seconds  
Prize: $ 2,000  
Team: ARVP

3. University of Detroit Mercy  
Waypoints: 9/9  
Time: 3 minutes 17 seconds  
Prize: $ 1,500  
Team: Thor

4. Virginia Polytechnic Institute and State University  
Waypoints: 8/9  
Time: 6 minutes 59 seconds  
Team 2: Gemini

5. Bob Jones University  
Waypoints: 6/9  
Time: 4 minutes 30 seconds  
Prize: $ 1,000  
Team: Adam II

6. University of Central Florida  
Waypoints: 6/9  
Time: 6 minutes 2 seconds  
Prize: $ 750  
Team: Calculon

7. Cedarville University  
Waypoints: 2/9  
Time: 41 seconds  
Team: Yellow Jacket II
<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
<th>Team:</th>
<th>Waypoints</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>8</td>
<td>Hosei University</td>
<td>Omnix 2006</td>
<td>2/9</td>
<td>1 minute 12 seconds</td>
</tr>
<tr>
<td>9</td>
<td>Elizabethtown College</td>
<td>WunderBot III</td>
<td>1/9</td>
<td>1 minute 19 seconds</td>
</tr>
<tr>
<td>10</td>
<td>University of Texas – Austin</td>
<td>RASlow</td>
<td>1/9</td>
<td>1 minute 25 seconds</td>
</tr>
<tr>
<td>11</td>
<td>Bluefield State College</td>
<td>Anassa II</td>
<td>1/9</td>
<td>3 minutes 14 seconds</td>
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**JAUS Challenge**

<table>
<thead>
<tr>
<th>Institution</th>
<th>Team:</th>
<th>Level</th>
<th>Prize</th>
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<tbody>
<tr>
<td>Bluefield State College</td>
<td>Anassa II</td>
<td>I</td>
<td>$500</td>
</tr>
<tr>
<td>Case Western Reserve University</td>
<td>Roberto</td>
<td>I</td>
<td>$500</td>
</tr>
<tr>
<td>École de technologie supérieure</td>
<td>RS3</td>
<td>I</td>
<td>$500</td>
</tr>
<tr>
<td>Hosei University</td>
<td>Omnix 2006</td>
<td>I</td>
<td>$500</td>
</tr>
<tr>
<td>Lawrence Technological University</td>
<td>H2Bot</td>
<td>I</td>
<td>$500</td>
</tr>
<tr>
<td>Trinity College</td>
<td>ALVIN VII</td>
<td>I</td>
<td>$500</td>
</tr>
<tr>
<td>University of Alberta</td>
<td>ARVP</td>
<td>I</td>
<td>$500</td>
</tr>
</tbody>
</table>
University of Cincinnati
Level: I
Prize: $500

University of Colorado - Denver
Level: I
Prize: $500

Virginia Polytechnic Institute and State University
Level: I
Prize: $500

Grand Award

1. Virginia Polytechnic Institute and State University
   Team 2: Gemini
   Points: 57
   Prize: $10,000

2. Virginia Polytechnic Institute and State University
   Team 3: Johnny-5
   Points: 44

3. University of Detroit Mercy
   Team: Thor
   Points: 31

4. Hosei University
   Team: Omnix 2006
   Points: 30

5. University of Alberta
   Team: ARVP
   Points: 20

5. Virginia Polytechnic Institute and State University
   Team 1: Chimera
   Points: 20

7. Bob Jones University
   Team: Adam II
   Points: 10

7. Bluefield State College
   Team: Anassa II
   Points: 10

7. Lawrence Technological University
   Team: H2Bot
   Points: 10

10. University of Wisconsin – Madison
    Team: WIRED
    Points: 5

11. University of Central Florida
    Team: Calculon
    Points: 4