

# The 14<sup>TH</sup> Annual Intelligent Ground Vehicle Competition

Selfridge Air National Guard Base  
Harrison Twp, Michigan  
June 10<sup>TH</sup> - 12<sup>TH</sup>, 2006

## Autonomous Challenge

- |   |                        |
|---|------------------------|
| 1. Virginia Polytechnic Institute and State University<br>Distance: 730 feet (full course)<br>Time: 3 minutes 39 seconds<br>Prize: \$ 3,000 | Team 2: Gemini         |
| 2. Hosei University<br>Distance: 561<br>Time: 3 minutes 33 seconds<br>Prize: \$ 500   | Team: Omnix 2006       |
| 3. Virginia Polytechnic Institute and State University<br>Distance: 555 feet<br>Time: 2 minutes 55 seconds                                  | Team 3: Johnny-5       |
| 4. University of Detroit Mercy<br>Distance: 551 feet<br>Time: 5 minutes<br>Prize: \$ 250  | Team 2: Thor           |
| 5. Bob Jones University<br>Distance: 396 feet<br>Time: 5 minutes  | Team: Adam II          |
| 6. Bluefield State College<br>Distance: 349 feet<br>Time: 2 minutes 29 seconds  | Team: Anassa II        |
| 7. University of Central Florida<br>Distance: 294 feet 6 inches<br>Time: 5 minutes  | Team: Calculon         |
| 8. Cedarville University<br>Distance: 289 feet<br>Time: 1 minute 55 seconds   | Team: Yellow Jacket II |
| 9. University of Minnesota - Duluth<br>Distance: 275 feet<br>Time: 5 minutes  | Team: MARVIN III       |

10. Lawrence Technological University Distance: 186 feet Time: 5 minutes	Team: H2Bot
11. University of Alberta Distance: 169 feet Time: 2 minutes 30 seconds	Team: ARVP
12. Brigham Young University Distance: 154 feet Time: 52 seconds	Team: Y-CLOPS
13. University of Colorado - Denver Distance: 138 feet Time: 1 minute 50 seconds	Team: PUMA
14. University of Michigan - Dearborn Distance: 71 feet Time: 46 seconds	Team: Raptor
15. École de technologie supérieure Distance: 63 feet 6 inches Time: 2 minutes 12 seconds	Team: RS3
16. University of Texas – Austin Distance: 49 feet Time: 1 minute 50 seconds	Team: RASlow
17. University of Cincinnati Distance: 48 feet 6 inches Time: 1 minute 52 seconds	Team: Bearcat Cub
18. Elizabethtown College Distance: 46 feet Time: 53 seconds	Team: WunderBot III
19. California State University - Northridge Distance: 38 feet Time: 2 minutes 33 seconds	Team: MI 1
20. Trinity College Distance: 36 feet 6 inches Time: 1 minute 13 seconds	Team: ALVIN VII
21. University of Wisconsin – Madison Distance: 29 feet Time: 20 seconds	Team: WIRED

22. University of Missouri - Rolla  
Distance: 27 feet  
Time: 9 seconds  
Team: Optical Prime

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

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

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

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

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

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

### **Design Competition**

#### **Finalist**

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

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

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

4. University of Wisconsin – Madison  
Score: 655.25/800  
Prize: \$ 1,000  
Team: WIRED

5. Bluefield State College  
Score: 650.75/800  
Prize: \$ 800

Team: Anassa II

6. Hosei University  
Score: 647/800  
Prize: \$ 700

Team: Omnix 2006

**Design Group A**

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

Team 1: Chimera

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

Team 2: Gemini

3. Lawrence Technological University  
Score: 704.5/800

Team: H2Bot

4. Virginia Polytechnic Institute and State University  
Score: 635/800

Team 3: Johnny-5

5. University of Detroit Mercy  
Score: 634.5/800

Team 2: Thor

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

Team: Optical Prime

7. University of Alberta  
Score: 633/800

Team: ARVP

8. École de technologie supérieure  
Score: 595.5/800

Team: RS3

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

Team: MI 1

10. Oakland University  
Score: 560.5/800

Team 2: Zeus

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

Team: RASlow

12. Oakland University  
Score: 500/800

Team 1: X-MAN

13. Georgia Institute of Technology  
Score: 454/800

Team: Robojackets

14. University of Colorado - Denver  
Score: 431/800

Team: PUMA

15. University of Delhi  
Score: 392/800

Team: YANTRAVID

**Design Group B**

1. Bluefield State College  
Score: 663.5/800

Team: Anassa II

2. University of Wisconsin – Madison  
Score: 662.5/800

Team: WIRED

3. Hosei University  
Score: 659.5/800

Team: Omnix 2006

4. Brigham Young University  
Score: 657.5/800

Team: Y-CLOPS

5. University of Central Florida  
Score: 595/800

Team: Calculon

6. Trinity College  
Score: 584.5/800

Team: ALVIN VII

7. University of Cincinnati  
Score: 561/800

Team: Bearcat III

8. Bob Jones University  
Score: 555/800

Team: Adam II

9. Elizabethtown College  
Score: 526/800

Team: WunderBot III

10. Cedarville University  
Score: 520.5/800

Team: Yellow Jacket II

11. Kettering University  
Score: 508/800

Team: BullDog II

12. Case Western Reserve University  
Score: 499.5/800

Team: Roberto

13. Rochester Institute of Technology  
Score: 485/800

Team: Hardcore III

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

8. Hosei University  
Waypoints: 2/9  
Time: 1 minute 12 seconds

Team: Omnix 2006

9. Elizabethtown College  
Waypoints: 1/9  
Time: 1 minute 19 seconds

Team: WunderBot III

10. University of Texas – Austin  
Waypoints: 1/9  
Time: 1 minute 25 seconds

Team: RASlow

11. Bluefield State College  
Waypoints: 1/9  
Time: 3 minutes 14 seconds

Team: Anassa II

### **JAUS Challenge**

Bluefield State College  
Level: I  
Prize: \$ 500

Team: Anassa II

Case Western Reserve University  
Level: I  
Prize: \$ 500

Team: Roberto

École de technologie supérieure  
Level: I  
Prize: \$ 500

Team: RS3

Hosei University  
Level: I  
Prize: \$ 500

Team: Omnix 2006

Lawrence Technological University  
Level: I  
Prize: \$ 500

Team: H2Bot

Trinity College  
Level: I  
Prize: \$ 500

Team: ALVIN VII

University of Alberta  
Level: I  
Prize: \$ 500

Team: ARVP

University of Cincinnati  
Level: I  
Prize: \$ 500

Team: Bearcat III

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

Team: PUMA

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

Team 2: Gemini

### **Grand Award**

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

Team 2: Gemini

2. Virginia Polytechnic Institute and State University  
Points: 44

Team 3: Johnny-5

3. University of Detroit Mercy  
Points: 31

Team: Thor

4. Hosei University  
Points: 30

Team: Omnix 2006

5. University of Alberta  
Points: 20

Team: ARVP

5. Virginia Polytechnic Institute and State University  
Points: 20

Team 1: Chimera

7. Bob Jones University  
Points: 10

Team: Adam II

7. Bluefield State College  
Points: 10

Team: Anassa II

7. Lawrence Technological University  
Points: 10

Team: H2Bot

10. University of Wisconsin – Madison  
Points: 5

Team: WIRED

11. University of Central Florida  
Points: 4

Team: Calculon