DARPA Site Visit #2
Princeton University’s Prospect 11
Tuesday, August 16, 2005

- All GPS data recorded at 1 second intervals.
- Length of heading vector is proportional to instantaneous speed.

- Start: Lat: 40.3406; Lon: -74.6391
- Weather conditions: Light rain, wet grass surface
- Surface: Field with short grass, mostly flat rough surface
1st required run on Prescribed Course (2 obstacles)

DARPA Site Visit #2
Princeton University’s Prospect 11

Start UTC: 16:53:41
End UTC: 16:54:19

Identified and avoided obstacles

Manual return to next run

- travel time: 0:38
- 1st obstacle successfully identified and avoided,
- 2nd obstacle successfully identified and avoided; however, right rear side of Prospect 11 slightly nicked obstacle as vehicle too quickly returned to centerline
- no excursions out-of-bounds
2\textsuperscript{st} required run on Prescribed Course (2 obstacles)

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Princeton University’s Prospect 11

- travel time: 0:40
- both obstacles successfully identified and avoided,
- no excursions out-of-bounds
3rd required run on Prescribed Course (2 obstacles)

DARPA Site Visit #2
Princeton University’s Prospect 11

Start UTC: 17:12:24
End UTC: 17:13:02

- travel time: 0:38
- both obstacles successfully identified and avoided,
- no excursions out-of-bounds
Optional Run (two circuits, 729 meter course, 6 obstacles)

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Start UTC: 17:24:47
Demonstration of “out-of-bounds” recovery

End 1st Circuit UTC: 17:26:50

End 2nd Circuit UTC: 17:29:04

• 1st circuit travel time: 2:03
• 2nd circuit travel time: 2:14
• all obstacles successfully identified and avoided,
• no excursions out-of-bounds for both circuits,
• successful initial out-of-bounds recovery
Specification of Optional Course

Princeton University

Optional Run

Total Length: 729m

Blue dots indicate approximate position of obstacles.

8ft LBO

6ft LBO

Start

9ft LBO

13.3ft LEO (8m)