Special Seminar
Operations Research & Financial Engineering
Princeton University

PROSPECT ELEVEN

The Making, Testing and Running of Princeton’s Entry in the 2005 DARPA Grand Challenge

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ABSTRACT

The DARPA Grand Challenge last October 8 was a field test intended to accelerate research and development in autonomous ground vehicles. Prospect Eleven was an "extreme" entry in that it was completely designed, built/modified and tested by a dedicated core of Princeton undergraduates and was only one of two entries that relied on stereo vision. Prospect Eleven performed flawlessly for the first ten miles before succumbing to a software bug. Unsatisfied, part of the team returned to the desert during Fall Break. After changing “one line of code”, Prospect Eleven autonomously completed what remained of the 132 mile course as well as the more difficult 143 mile 2004 course. The talk will focus on Prospect Eleven's fundamental design concepts, experiences and lessons learned.

Wednesday, November 30, 2005
Friend Bowl 008
4:30 PM