Laser Range Finder



Objective: Use a forward pointing laser range finder to detect and avoid obstacles.

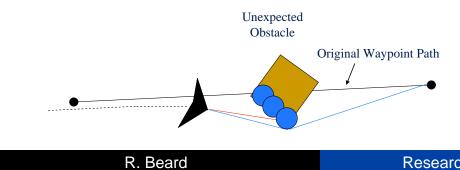
Principle Investigators: Randy Beard, Tim McLain

Sample Publication: Stephen Griffths, Jeff Saunders, Andrew Curtis, D. Blake Barber, Timothy W. McLain, Randal W. Beard, "Maximizing miniature aerial vehicles," *IEEE Robotics and Automation Magazine*, vol. 13, no. 3, 2006 p. 34-43.

Funding Source: AFOSR.

Approach

- 1. While following a nominal waypoint path, laser detects object.
- 2. Upon detection, insert cylindrical object into world map and plan path around the obsticle.
- 3. Continue until the obstacle has been avoided.



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