Autonomous Vehicle Project Openings for Fall 2014

The Autonomous Vehicle group at Cornell is seeking a small group of highly motivated **ECE/MAE/CS** students (**undergrad, MEng, PhD**) to work with our PhD students on robotics applications and research.

Autonomous Chevy Tahoe *Skynet*, equipped with: Litton LN-200 IMU, ABS wheel encoders, Septentrio PolaRx2e@ GPS receiver, Trimble Ag252 GPS receiver, Ibeo ALASCA XT lidar (3), SICK LMS-291 lidar (2), SICK LMS-220 lidar, Velodyne HDL-64E lidar, Delphi FLR radar (8), Unibrain Fire-I 520b optical camera, Ladybug 360° Spherical camera, custom electronics and mounting hardware.

Projects:
 * *Applicants should have **at least 1** of the recommended skills to contribute to a team*

1. **Contribute to an advanced GPS/IMU/Odometery vehicle state estimator**
   - **Recommended Skills:** C++, UDP Networking, Computer Hardware

2. **Design, Fabricate, and Install sensor mounts and housing**
   - **Recommended Skills:** Mechanical Engineering/Fabrication, CAD, Camera Optics

3. **Calibrate 360° Camera (Ladybug) & 64-scan LIDAR (Velodyne)**
   - **Recommended Skills:** C++, OpenCV, Computer Vision, Estimation

4. **Design and Build a Driver-Robot Interface**
   - **Recommended Skills:** C#, Mechanical/Electrical Fabrication, Electrical Wiring

INFORMATION SESSION: Thursday, August 28th at 5pm in 109 Upson Hall

How to apply:
1. Go to cornell-asl.org and download an application form from the front page
2. E-mail your **application and your resume/CV** with the subject line "Fall 2014 Skynet application" to *all* of the following people:
   Dr. Mark Campbell, mc288@cornell.edu
   Peter Radecki, ppr27@cornell.edu
   Kevin Wyffels, klw94@cornell.edu