Background and Goal

To create personal autonomous systems starting with DARPA’s UAV Forge goal. Unmanned Arial Vehicles (UAVs) are created to perform autonomous mission behavior like obstacle avoidance, mission task determination, etc. with the goal of a general purpose system for autonomy in the future.

Objectives

- Obstacle avoidance and other behaviors necessary for ANY autonomous system
- Software, Hardware, and other systems are created by us for applied use of the project
- Create a base system that can be used on multiple autonomous systems in future
- Demo a platform in Spring that meets DARPA competition goals

Innovation

We are focusing on creating new technology in the fields of autonomy, networking, sensing, and aircraft design. With a focus on vertical takeoff and landing (VTOL) capabilities, obstacle avoidance, and autonomous integration with people, our system explores research fields that are challenging and still unsolved.

Team Leads:

- Martin Aseno (CV/AI)
- Ryan Wilson & Jose Ortega (Fabrication/R&D)
- Ali Hashemi (Embedded Systems)
- Charlie Pisuraj (Network)
- Anahit Sargsyan (Software)
- Eric Wengert (Aero)
- Chris Prijic (Controls)

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