



Sciences for Maneuver
Vehicle Intelligence

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Research Facilities

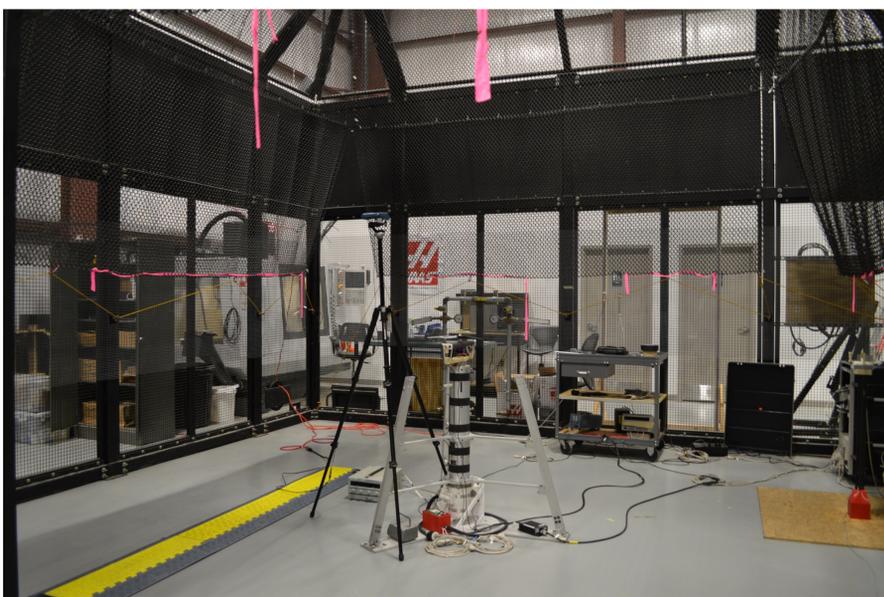
Facilities to conduct research with unmanned air and ground vehicles with a focus on modeling and simulation validated through live experimentation

Equipment Available

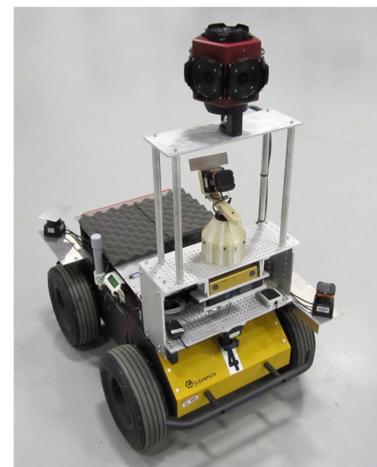
- Unmanned Aerial Vehicle (UAV) outdoor test facility
- Vicon motion capture system (indoor and outdoor capability)
- Rotary wing aircraft test stand
- Small unmanned ground and air vehicles
- Vehicle control laboratory
- Virtual simulation environments for vehicle behavior development
- Microsystem test facilities



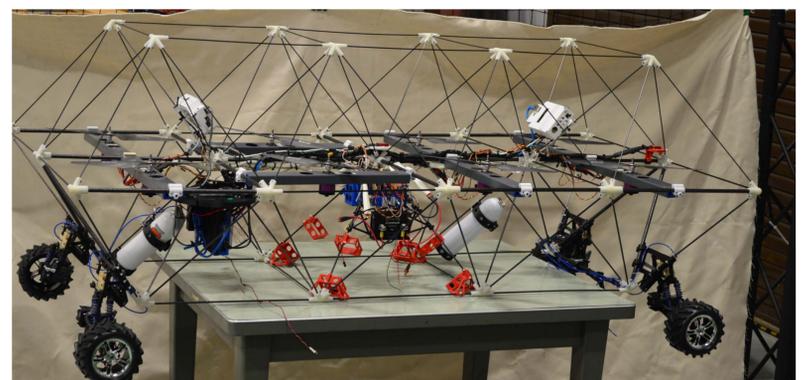
50' wide x 30' deep x 22' high volume with Vicon motion capture system to enable tracking of unmanned air and ground systems



Confinement cage (20' x 20') and test stand for testing high-speed rotating assemblies



Fully equipped unmanned ground vehicles for development of perception, reasoning, and learning algorithms in relevant environments



Unique vehicles, e.g., the multirotor "propulsion core" pictured above, to explore hybrid mobility concepts for complex environments



Outdoor test facility for small UAVs including 75' x 450' runway



Use of others' facilities through agreements