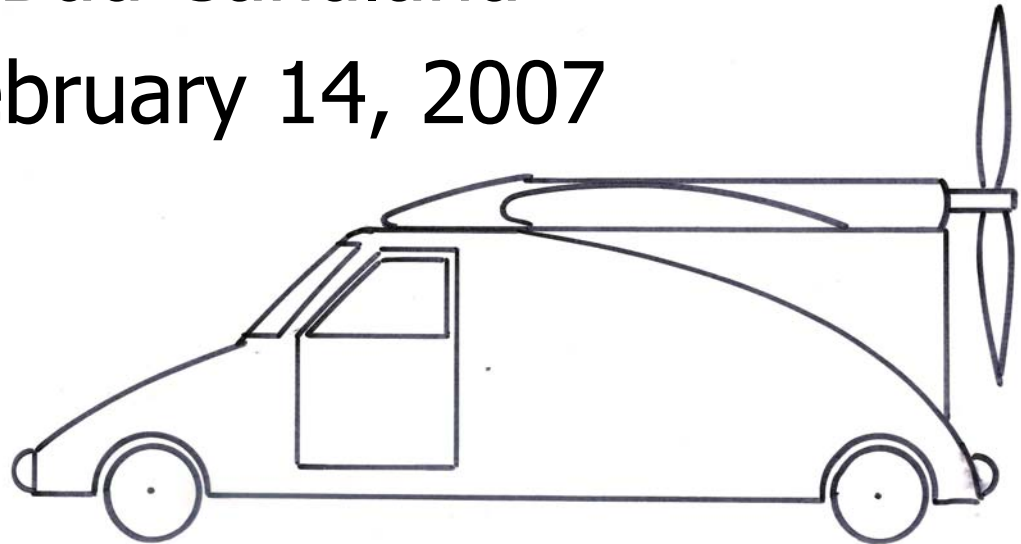


A CAR/PLANE VEHICLE

Bud Candland
February 14, 2007





Concept

- This would consist of a car (automobile) that would be street legal and operate just as today's cars do, and on which plane components (wing, tail, prop & controls) could be attached as desired.

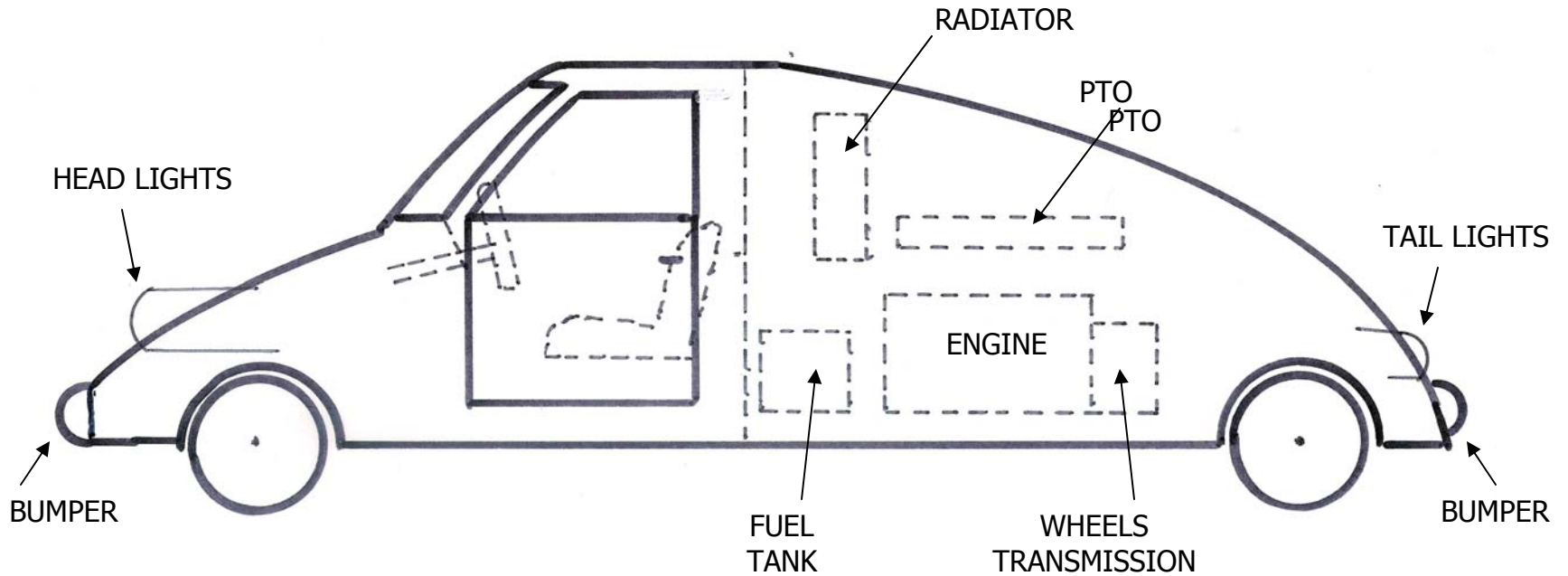


Car

- Street Legal

- Using a combination of auto & motorcycle drive, suspension, and brake systems
- Lights, license, engine applicable to autos
- Seating, steering, bumpers as in autos

Car Illustrated

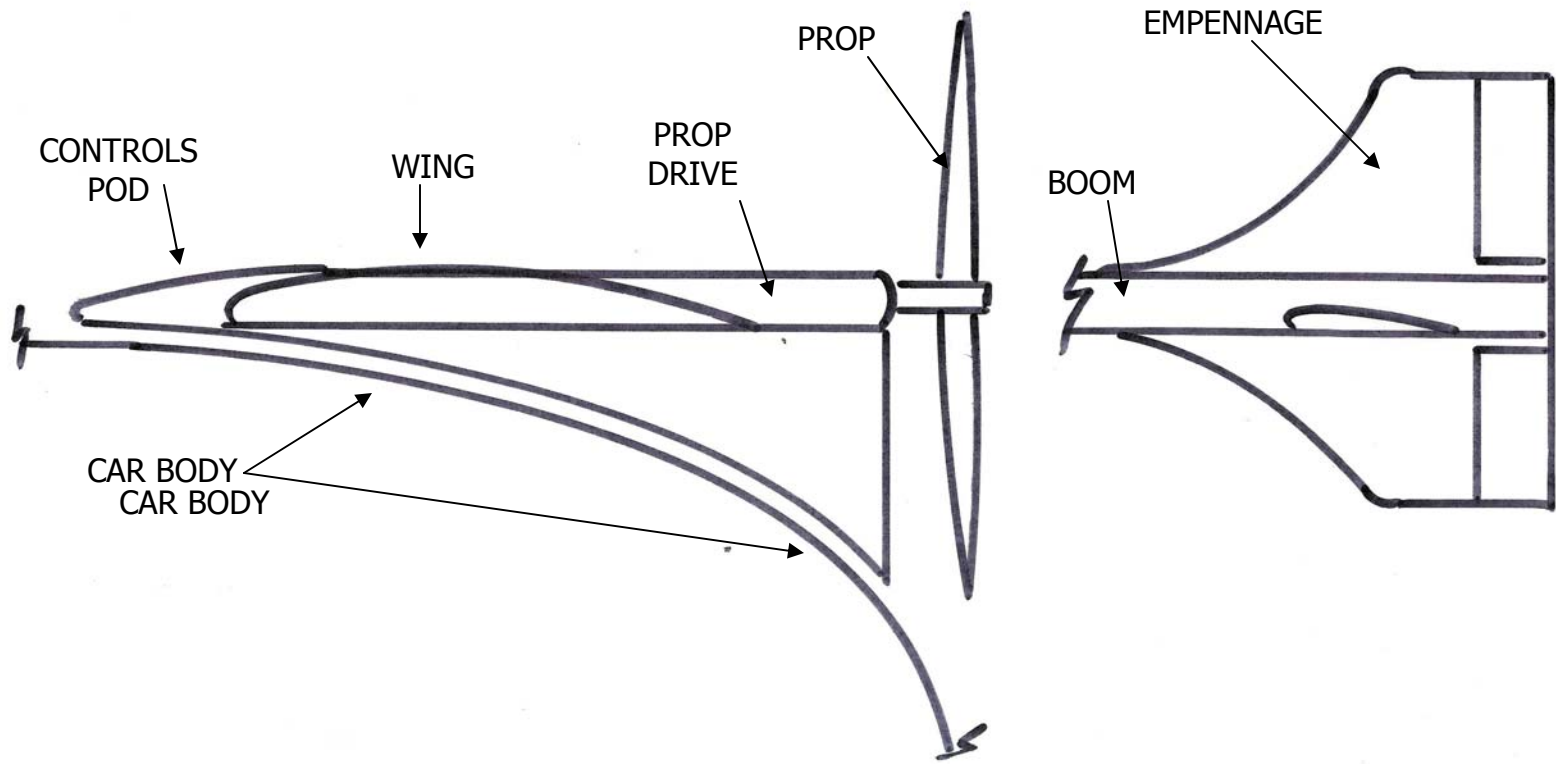




Plane

- All Controls Normal to Planes
 - Prop mounted for pusher
 - Elevator & rudder mounted on boom attached to wing spar
 - Controls utilized from a pedestal mounted to underside of wing assembly accessed through an opening on roof of car
 - Prop powered by cog belt from takeoff on engine

Wings and Tail Group





Schedule

- Design integrated car and plane
- Draw Blueprints
- Build car
- Build aircraft components



Requirements

- People
 - Club members
 - Companies who would donate time, expertise, equipment
 - Hire experts as necessary
- Place to build
 - Hangar
 - Garage
 - Home Shop
 - Commercial shed

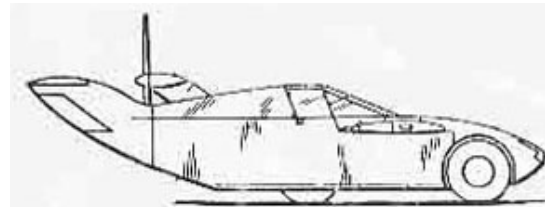
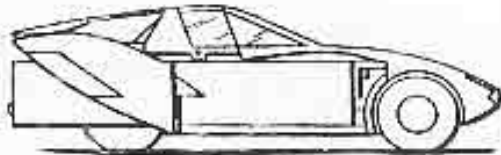
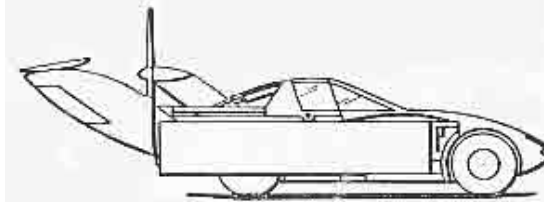


Funding

- Fund raising events
- Individual donations
- Individual personal loans
- Bank loan
- SBA loan

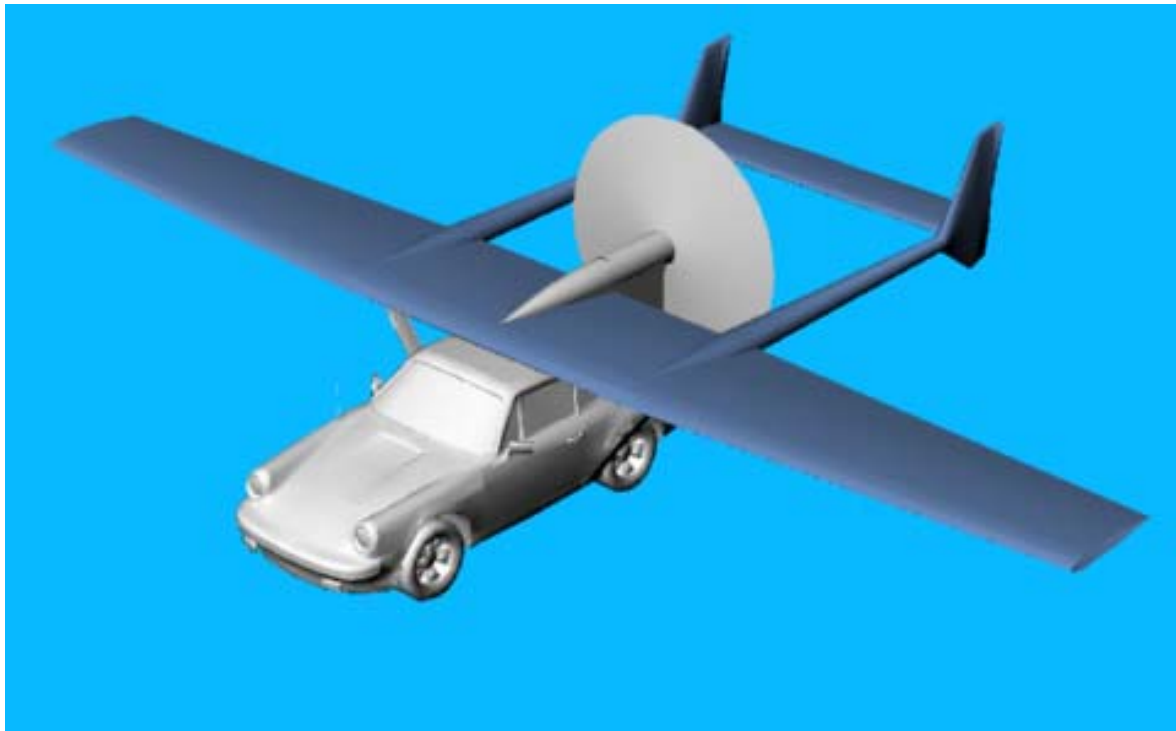
Other Efforts

- Aviauto (H. Miller)



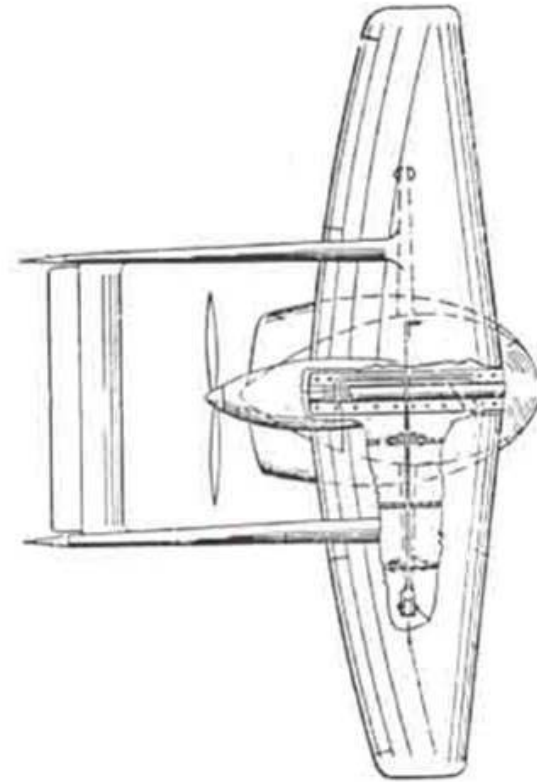
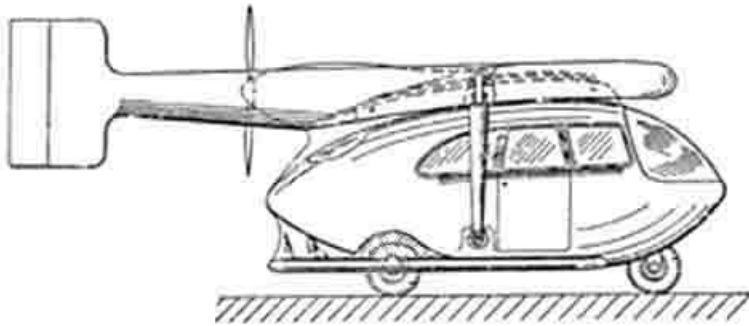
Other Efforts

- Porsche Skymaster (Georg Vranek)



Other Efforts

- The Nye/Poisson (E. Nye & A. Poiss



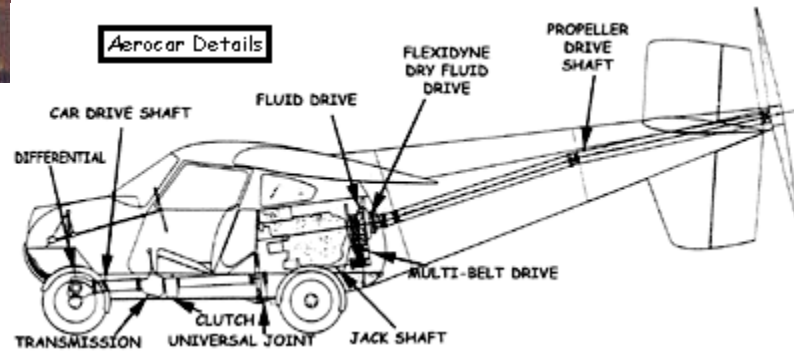
Other Efforts

- Molt Taylor's less-famous AirCar



Other Efforts

- Taylor's Aerocar IV





Taylor AeroCar IV Performance

- **AEROCAR PERFORMANCE**
 - Top SpeedOver 110 MPH
 - Cruising SpeedOver 100 MPH
 - Rate of Climb (1st Min @ full load) ...Over 550 FPM
- **Service Ceiling @ full load ...Over 12,000 Ft,**
 - Cruise RangeOver 300 Miles
 - Landing Speed 50 MPH
- **Landing Run (with normal braking) ...300 Ft.**
 - Take-off Run 650 Ft.
 - Distance to Clear 50 ft. Obstacle1225 Ft.
 - Designed Road Speed (Engine red line)...67 MPH
 - Road RangeOver 400 Miles
 - Fuel Consumption (Cruising).....8 GPH
 - Road Fuel Consumption18 MPG
 - Time to Change from Plane to CarFive Min.

Conclusion

- Project aimed at building a vehicle that operates on the ground like an automobile and operates in the air like an airplane
- Needs more discussion & resources

