

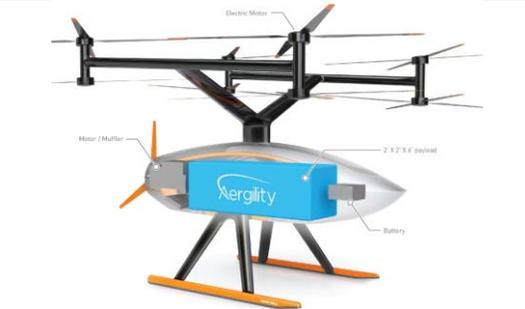
Appendix 2

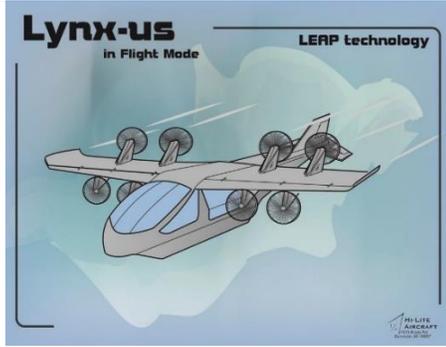
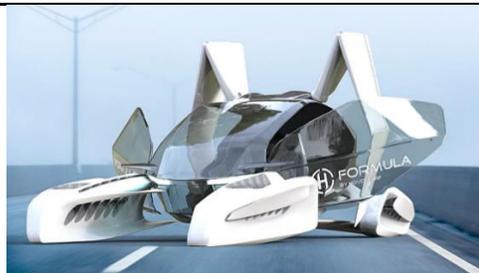
Lift + Cruise, Electric-Powered, Vertical Take-Off and Landing (VTOL) Aerial Vehicles (AVs)

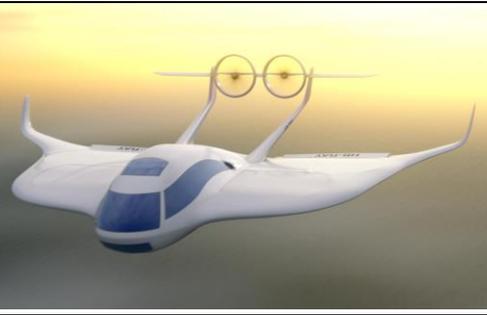
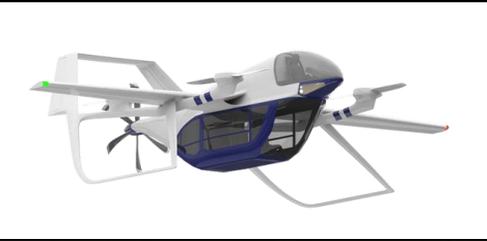
The following eVTOL aircraft use independent thrusters for cruise as well as for lift.

eVTOL.news information is current as of February 2019. Used with permission of the Vertical Flight Society. Please visit their website <http://evtol.news/aircraft>. Additional information was obtained from TransportUp (<https://transportup.com>) and from specific manufacture’s websites, listed in the table. Please visit their websites.

Note: The autonomous vehicles, prototypes or concepts presented herein are listed in alphabetical order, by manufacturer, and are presented for informational purposes only. OVER, LLC does not represent or endorse any particular vehicle, prototype or concept, and has not verified the information.

Make/Model and Brief Description	Image
<p>AeroMobil 5.0 This concept vehicle is a 4-seat flying car having a piston aircraft engine with 75 kW 100 hp and batteries to power 2 electrically driven propellers on its wing-tips. Wings pivot backwards for the driving configuration. Flight range will be 700 km (~435 miles). (Bratislava, Slovakia; www.aeromobil.com)</p>	
<p>Aergility ATLIS The ATLIS will be an autonomous hybrid electric/gas powered UAV intended for long range cargo delivery. It has eight “Managed Autogyration” vertical propellers for take-off and landing, and a gas-powered pusher prop for propulsion. Max payload is 180kgs (~397lb), max range 320km (199mi), and max speed 160km/h (~99mph). (Dunnellon, FL; www.aergility.com)</p>	
<p>Aurora Flight Sciences eVTOL The Boeing-owned company Aurora is developing the autonomous, 2-passenger eVTOL having 8 propellers for vertical flight and a push-prop and wings for cruising. Max payload is 225 kgs (~495lb), cruise speed is 90km/h (~56mph) and max speed is 180km/h (~112mph). (Manassas, VA; www.aurora.aero)</p>	
<p>EAC Whisper The 2-passenger Electric Aircraft Concept (EAC) Whisper prototype is an 8-rotor AV with current flight time of 30 minutes. Flight time will increase with improved batteries. (Caromb, France; www.eac-whisper.com)</p>	

Make/Model and Brief Description	Image
<p>Embraer DreamMaker The DreamMaker air-taxi prototype has 8 electric propellers for lift and a tail pusher for propulsion. It's being designed to transport a pilot and 4 passengers. Power generation is unknown, but batteries can charge in as little as 5 minutes between flights. (São Paulo, Brazil; www.embraer.com)</p>	
<p>Flexcraft The Flexcraft 8/10-seat prototype pairs a hybrid-electric powerplant for fan-in-wing propulsion with a flexible, modular cabin for different missions. Range is 926 km (~575mph), and the cargo-only payload is 1,000 kg (2,200 lb). (Lisbon, Portugal; www.flexcraft.pt)</p>	
<p>Hi-Lite Lynx-us The Lynx-us prototypes comes in four models, capable of 280 knots (~322mph) speed and 300 nm (~ 345 mile) range. They can be scaled up or down, depending on customer needs.</p> <ol style="list-style-type: none"> 1. Leap, 1+4 seats 2. Leap EMS, 2+2 stretchers 3. Patriot-10, 1+12 seats 4. Patriot-15, 1+16 seats <p>(Bannister, MI; www.vtolcruze.com)</p>	
<p>HoverSurf Formula The Formula provides convenience of a parking space size footprint, safety of Venturi engines and wings, max speed of 250km/h (155mph), range of 300 km (186 mi), flight time of 1.2 hours, and very low noise levels. Development of 2- and 4-passenger models is ongoing. (California; www.hoversurf.com/formula)</p>	
<p>Kitty Hawk Cora 12 independent fans on wings provide lift, and a single propeller at the tail provides propulsion. Speed ~180km/h (110mph), range ~100km (62mi), cargo capacity 181kg (400lb), flight time 19 min (with 10-min reserve). (Mountain View, CA; www.cora.aero)</p>	
<p>Napoleon Aero VTOL The 4-seat Aero prototype uses 46 electric fans embedded in the wing and canard, and a single electric motor powering a thrusting propeller in the rear. Six fans are in the canard and 20 on each side of the wing. Max payload is 400 kg (880 lb), and max range is 100 km (62 mi) on a single charge. (Russia)</p>	

Make/Model and Brief Description	Image
<p>Pipistrel Developed as a partner of Uber Elevate, Pipistrel Vertical Solutions' bat-wing eVTOL concept (unnamed) uses dedicated propulsion systems for both cruising and vertical lift. It is being designed for 2 to 6 passengers and is supposedly very fast. (Ajdovščina, Slovenia; www.pipistrel.si)</p>	
<p>Ray Research VTOL Aircraft Lift in this 5-seat, long range prototype is generated by 4 wing-fans plus 2 smaller, vectoring tail-mounted ducted fans. For cruise flight the wing fans are closed over with louvered doors, and the aircraft is propelled by the two rear ducted fans alone. Cruise speed is ~360km/h (224mph) and range is 1,800 km (~1118 mi). (Muttentz, Switzerland; www.RayAircraft.com)</p>	
<p>Terrafugia TF-2 Lift + Push The TF-2 Lift + Push has a fixed wing with 4 electric vertical propellers and a pusher-prop at the rear. Speeds are ~222km/h (~138mph), range up to 400km (~248mi), and payload/cargo capacity of 500kg (~1100lb). (Woburn, MA; www.terrafugia-tf2.com)</p>	
<p>Urban Aeronautics CityHawk A variant of the Fancraft™ vehicles, the 4-passenger CityHawk prototype is designed to be powered with liquid hydrogen fed directly to a turboshaft engine. It will be fully autonomous, carry 960kg (1,670lb), speed 234km/h (~145mph), range 150km (93mi), have no exposed rotors or wings, no batteries, and zero carbon emissions. The larger 14-seat Falcon XP (2 pilots and 12 passengers) has also been designed. (Yavne, Israel; www.urbanaero.com)</p>	