



# **HASELOH** **INNOVATIONS**

## Special Projects

**HASELOH INNOVATIONS** offers its customers a blend of advanced modeling and design with precision CNC manufacturing capabilities. By maintaining tight controls of each project through a computer administrated quality control program, **HASELOH INNOVATIONS** ensures your project is delivered to your exacting specifications.

**HASELOH INNOVATIONS** gives you the final and complete system control through our specially designed electronic interfaces. We can provide you with a customized and very detailed solution to your specific requirements at costs that you expect from off-the-shelf product lines. **HASELOH INNOVATIONS** would like to discuss your technical needs, products, and future development requirements. Together we can and will deliver solution that work for you.

Add the in-house machining capabilities of **HASELOH INNOVATIONS** and you have the ability to go from concept to production within as little as 48 hours, eliminating the long transition times from research and development into production.

If your project requires manufacturing of special materials, we have mastered the machining of exotic materials such as titanium, aircraft grade aluminum, 4140 high carbon steel, and stainless steels, to name a few. **HASELOH INNOVATIONS** also works with numerous non-metals, including carbon fibre and fibre glass. Many high-density plastics such as Acetel®, Nylatron®, Teflon Filled Delrin®, polycarbonate, HD-PE and LD-PE are common materials used in our facility. These are just a few of your choices as we develop solutions for your ongoing product requirements.

**HASELOH INNOVATIONS** offers our undivided attention to your special needs. From light weight, but strong aircraft quality components to electronic measuring and monitoring, together we can design a viable solution to fill your unique circumstances.

See following pages for just a few of our special projects

**Special Project:** Design and manufacture folding landing gear for Unmanned Aerial Vehicle (UAV)

Total Weight: 9.7 Lbs C/W hydraulic disc brakes.  
: Hydraulic over Air Oleo Suspension

Folding Main and Nose Gear



30 Ft wing span Twin Engine UAV



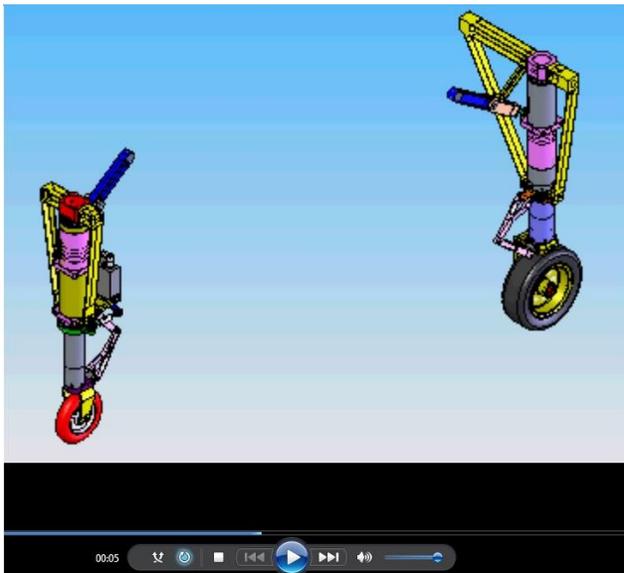
Flight Test of UAV



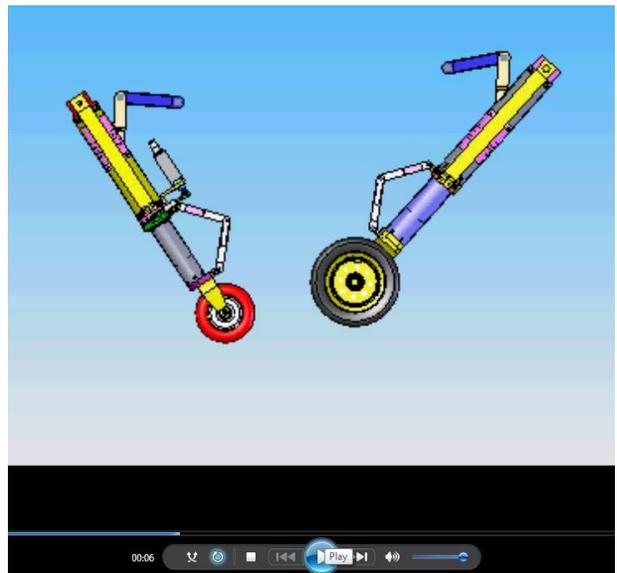
Successful landing after test flight



Computer Animation of landing gear  
Assembly before Manufacture



Computer Animation of landing gear  
Folding before Manufacture



Special project: Design, Development, and installation of ZEDI SilverJack® Hydraulic Stroker

Project Scope:

Design and development of a fully controllable Hydraulic Artificial Lift System, complete with electronics to control all aspects of 4.3 Liter Chevrolet power plant with hydraulic variable displacement pump and all engine functions

4.3 Liter Chev Power Plant

SilverJack® Cylinder  
C/W Electronic sensors

Full electronic control console for all SilverJack Functions



Custom Designed Non-Contact Sensor Bar

