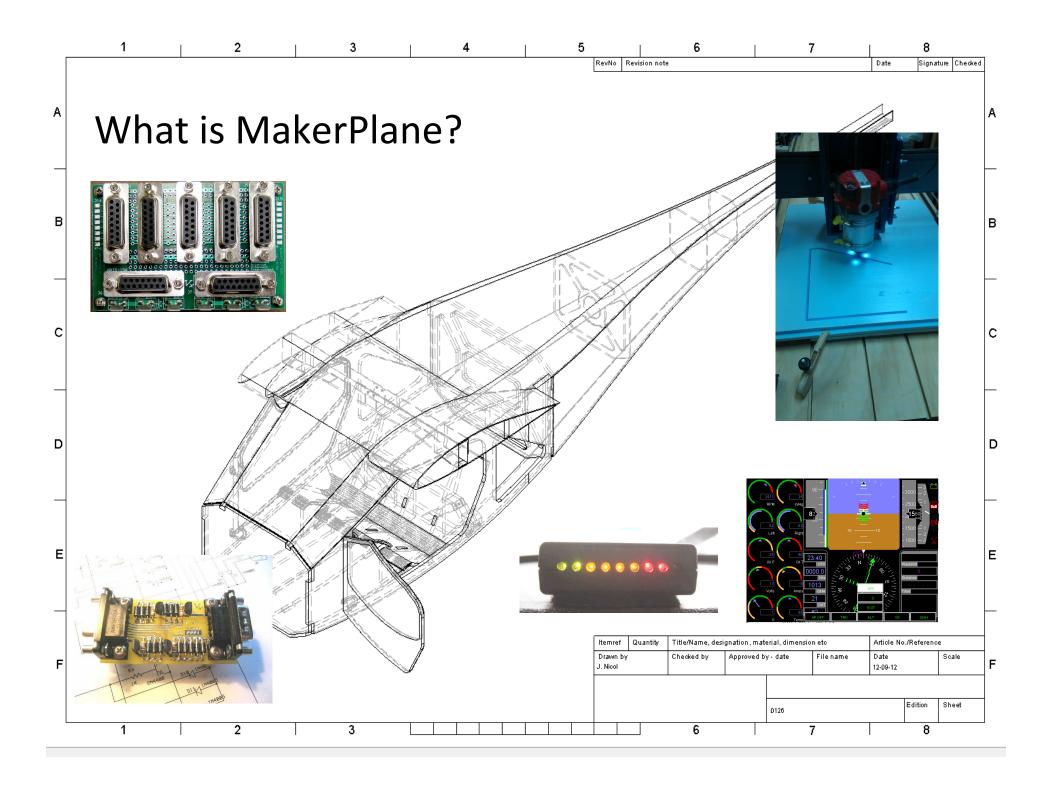
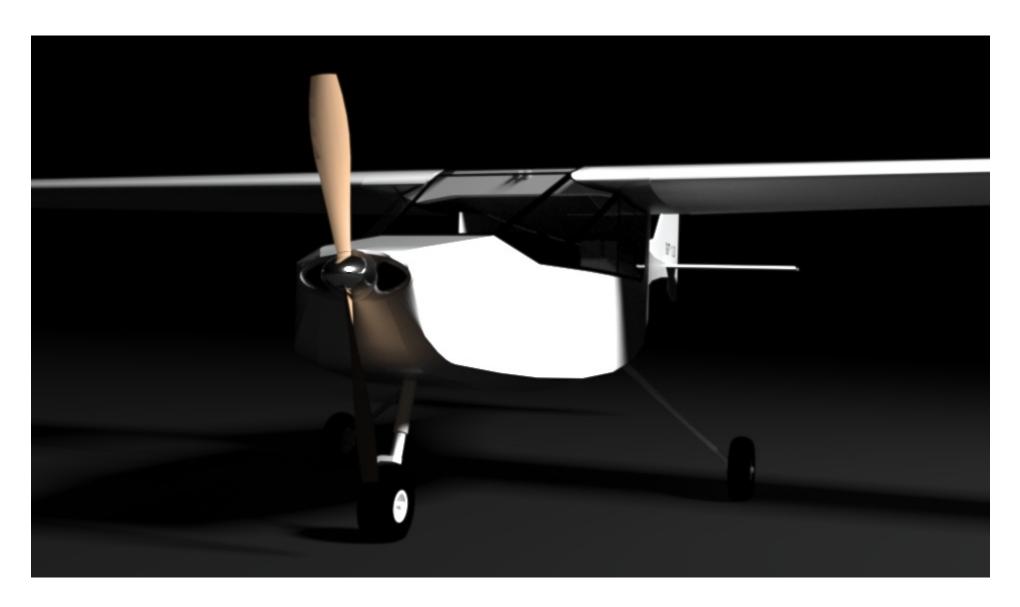


Open Source Hardware Summit New York City, 27 September 2012 John Nicol

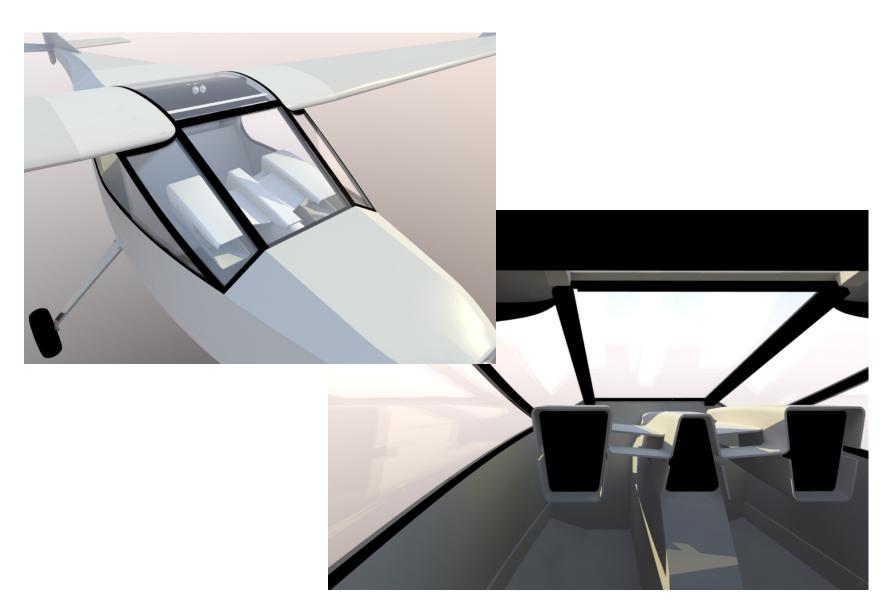


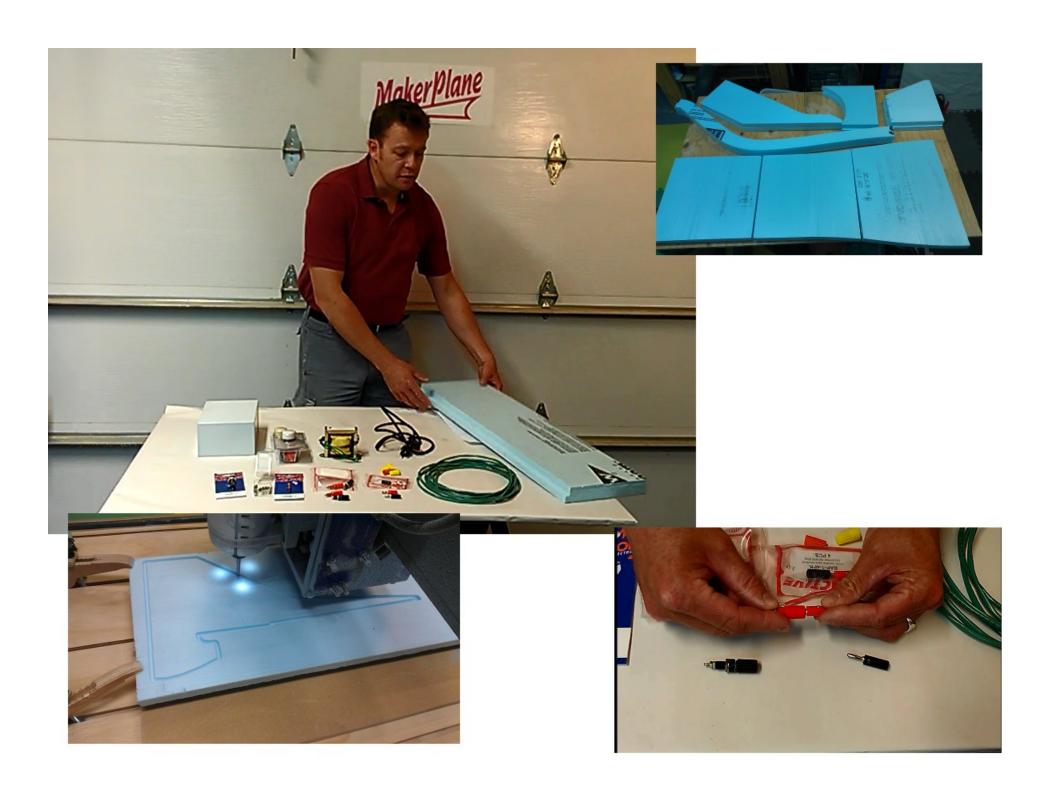














Problem

 62% of homebuilt aircraft kits and plans are abandoned before finishing



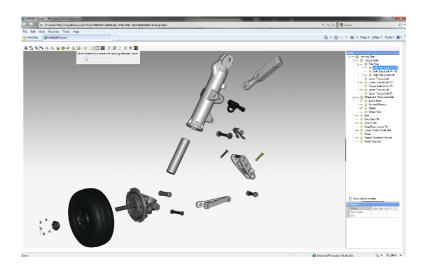






Solution

- Create plans, methodologies to build using personal home-based digital manufacturing equipment.
- A collaborative online environment



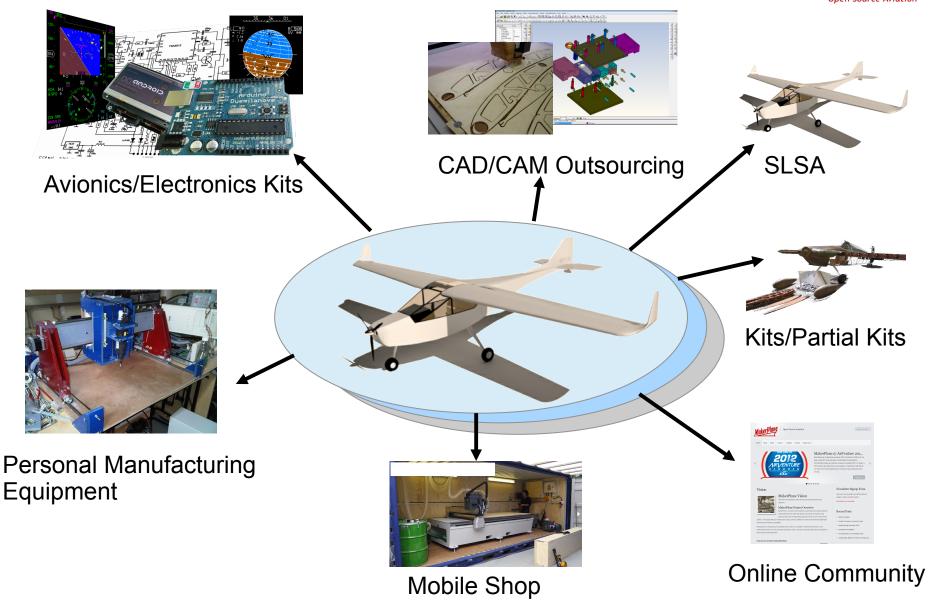
Traditional Way: 3 hours per rib



CNC: 3 minutes per rib









Team





Progress and Milestones

Now: Avionics available



Oct 12: Kickstarter Campaign



2013: MP v1.0 Prototype







Issues

- Perception and education
- Safety
- Certification Standards
- Licensing



Perception & Education

- Experimental aircraft past-time
- 3D printing
- Makerspaces and capabilities





Safety

- **FAA Rules**
- Licensing and Training
- Built-in systems





Liability

- Waivers
- Supply kits only
- Builder is manufacturer





Certification Standards

- Design and build to recognized standards
 - **FAA**
 - **ASTM**







Licensing

- Four OSH licenses listed on our website
- TAPR NCL is our current option





www.makerplane.org

