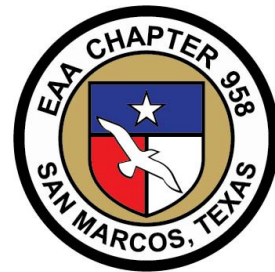


The Flightline



EAA Chapter 958 San Marcos, TX
Where every day is a good flying day!

March 2016 Issue

EAA Chap 958 Meeting
Redbird Conference Room
San Marcos Airport
Saturday March 19, 2016,
10:00 am
Coffee and Donuts @ 9:30

Program: Bearhawk
Aircraft
Presenter: Mark Goldberg

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Editors Notes

Hey there Chapter 958, welcome to early spring. Hopefully everyone stayed high and dry during the rain and is getting out to work on and fly their planes now.

Things are perking up in the aviation arena. We have the CAF Drive-in Fly-in event scheduled for April 16th at the CAF hangers, and the Hallettsville Fly-in, Pig-out Pig Roast and BBQ sponsored by Vintage Aerocrafters on May 14th coming up (see posters elsewhere in this issue). This is something the chapter may want to consider for the fall as a means of adding to the Chapter coffers and promoting future programs.

This month we have an article by Stan Timmerman as he begins slicing through the sheet metal that will eventually become a wing spar for his Bearhawk. Thanks Stan. All you guys out there working on your various projects, send me your thoughts on building your aircraft. Surely you have some ups and downs worthy of sharing with your partners in crime. If not to pass on relevant information, then at least for a chuckle.

Airventure

Due to unforeseen circumstances we need someone who will be able to check into camping availability for the chapter at Airventure. Those who are still interested in camping at Airventure may want to get together at the meeting. Anyone interested in heading the effort, please contact Phillip. Those attending regardless, may want to get together anyway. If interested contact me.

New Members

We want to welcome the following new member to the chapter:
Kelly Klaus – also a member of the CAF
Glad to have you aboard.

Eagles Program

We want to offer a great big "Thank You" to John Brecher and Terry Ross who have stepped up for the Eagles program. John will handle the administration and marketing of the program while Terry will be the student mentor and flight adviser. The chapter really appreciates what you do.

Blue skys and tailwinds

Russ

FLY-IN!


MAY 14, 2016

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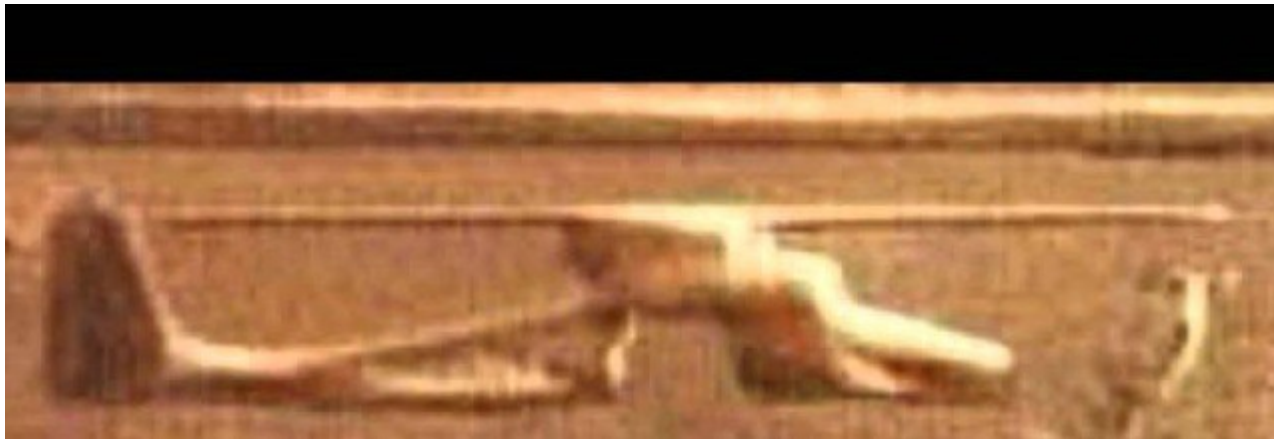
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Wing Spar Construction Part 1

By Stan Timmerman

When I was a kid, the paper my family read was the "The National Enquirer". I learned many interesting things from reading it. For example, the "Skunk Ape" was a relative of "Big Foot". The Skunk Ape's range was from Florida to Arkansas, where as Big Foot favored northern climates. I continued my education by moving up to reading books. One of the books I recall was "Chariots of the Gods? Unsolved Mysteries of the Past". The evidence was compelling that aliens had built the pyramids. I was particularly impressed that they also had airplanes.

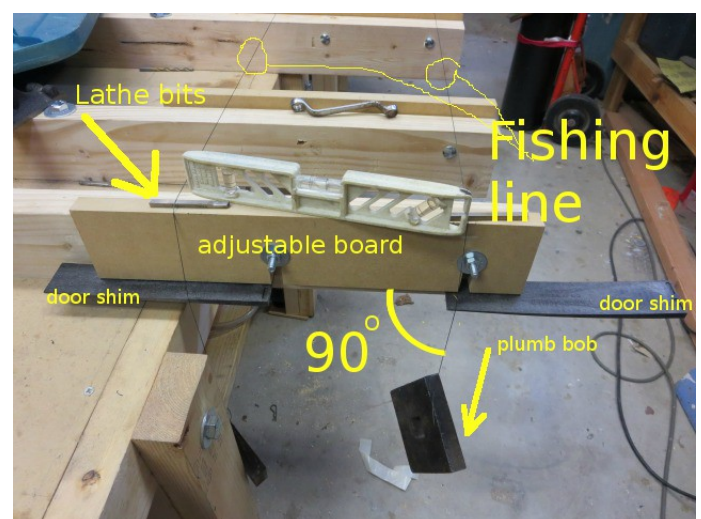


This picture is from an Egyptian hieroglyph, and it is clearly a Cessna. The exact model can be determined by the shape of the rudder.

The Egyptians only had sticks, strings, plumb bobs, straight edges, and a 3, 4, 5 right triangle. I therefore concluded that the alien hypothesis was true.

Fast forwarding; I find that I have to reconsider whether aliens were involved. On a daily basis I find that I use all of the Egyptian's tools while building my Bearhawk wings. The only difference is that I use 80 lb test fishing line. As an aside, Cabellas sporting store stocks 80lb test fishing line for fishermen that are delusional.

This picture shows the use of string while building a table for my wing spars. After setting the two end board heights, I can go back and use the string as a reference to set all of the other boards. The strings allows me to make a very accurate and flat table. For convenience, I glued two small blocks to my 2x4 lumber. I then use door shims to slowly adjust the board before locking them in place with bolts. The Egyptians would have had a substitute for MDF and lathe bits.



I am preoccupied with building things accurately. For example, most builders make a copy of the plans and glue them to a piece of aluminum. They then saw and sand to the paper template edge. It is an absolute fact that this is perfectly fine. This makes the project go slower than it needs to. is perfectly fine. Unfortunately, I suffer from some sort of disease where I have to waste a lot of time doing it some other way.



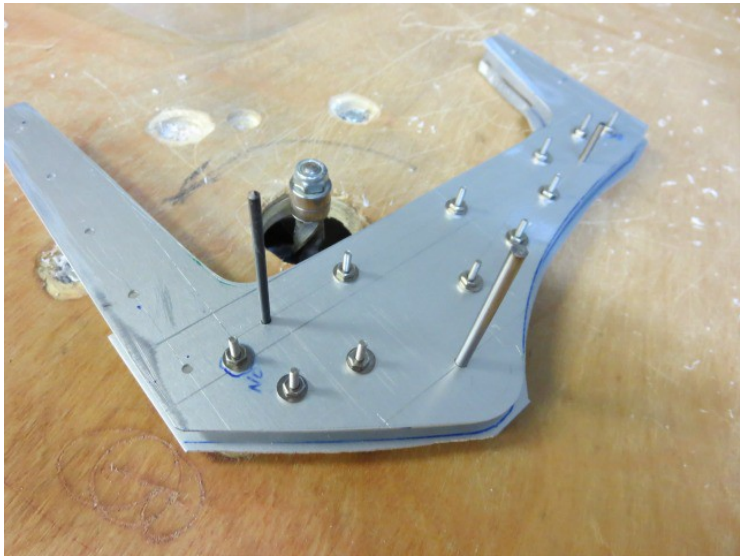
Here I use some cheap aluminum that I get from Home Depot. It was supposed to be used as a kick plate for the bottom of a door.

Using a carbide scribe, I mark out all the lines that are on my paper plans. I then take sharpened drill bits and place dimples where I need to drill. If I make a mistake for the location of the dimple, I can whack the dimple at an angle to push it where I want it to go. Finally, I take a diamond stone and flatten out the raised edges leaving a perfect dimple in the exact place that needs a drilled hole. Someone please shoot me.



This is where I leave the Egyptians in the dust. I use special blades for cutting aluminum and a step drill to rough out my templates.

I then use a belt sander to slowly take material away - up to the scribed lines



This is where all of the work pays off. I use the part I have been working on as a template. The router table has a ball bearing edge trimmer bit for making duplicate parts at little to no effort.

Hopefully, next month I will have attached my parts to the spar.

Sadly, I have not been able to come to a final determination as to whether aliens helped the Egyptians. The Egyptians clearly had most of the tools necessary to build a Cessna. When I have deviated from their methods, it is largely because I am trying to justify all the money I have spent on tools.



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PRESENTED BY: STEPHANIE MYERS



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WHERE: 1841 AIRPORT DR, SAN MARCOS TX

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Safety Corner

EAA Webinars

<u>Date</u>	<u>Time</u>	<u>Webinar</u>	<u>Presenter</u>
3/16/16	7 pm CDT	Are You Fit to Fly? Understanding Aeromedical Certification	Dr. Greg Pinnell
3/23/16	7 pm CDT	Reviewing the Flight Review	Prof. H. Paul Shuch
3/30/16	7 pm CDT	Basics for Tailwheel Airplanes	John Valade
3/31/16	7 pm CDT	Avoiding the base to final turn accident	Gorden Penner
4/6/16	8 pm CDT	Watch Your Language	Mike Busch
4/12/16	6 pm CDT	EAA Collegiate Volunteers Program	Katie Meyer

