
Subject: [simpits-tech] New vids!
Posted by [Gene Buckle](#) on Wed, 28 Mar 2012 23:15:13 GMT
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...and F-15 progress finally! :)

<http://www.youtube.com/watch?v=mKrUuGj8YyA>
<http://www.youtube.com/watch?v=o7tJaJJbRkc>

Here's the blog post that goes with the videos:
<http://www.f15sim.com/?p=223>

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[Cipher in a.s.r]

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Simpits-tech@simpits.org
<http://www.simpits.org/mailman/listinfo/simpits-tech>
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Subject: Re: [simpits-tech] New vids!
Posted by [Sean Galbraith](#) on Thu, 29 Mar 2012 01:13:08 GMT
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Wow! You said you were getting your centipede going! Great work!

Is the warning panel all aircraft parts, or simulated? I have just acquired a 737 fire control panel, and have been playing around with driving the handle solenoids with a relay via arduino... be nice to drive all the korrays too :)

SeanG

> -----Original Message-----

> From: simpits-tech-bounces@simpits.org [mailto:simpits-tech-

> bounces@simpits.org] On Behalf Of Gene Buckle

> Sent: Thursday, 29 March 2012 12:15 p.m.

> To: simpits-tech@simpits.org

> Subject: [simpits-tech] New vids!

>

> ...and F-15 progress finally! :)

>

> <http://www.youtube.com/watch?v=mKrUuGj8YyA>

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>

> _____

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Subject: Re: [simpits-tech] New vids!

Posted by [Gene Buckle](#) on Thu, 29 Mar 2012 02:23:58 GMT

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On Thu, 29 Mar 2012, Sean Galbraith wrote:

> Wow! You said you were getting your centipede going! Great work!

>

> Is the warning panel all aircraft parts, or simulated? I have just
> acquired a 737 fire control panel, and have been playing around with
> driving the handle solenoids with a relay via arduino... be nice to
> drive all the korrays too :)

>

The master caution panel is OEM hardware. :) Pre-MSIP II. (Multi Stage Improvement Program, phase II). The panel in the cockpit right now is the more up to date version with a few updated legend plates.

I've got 7 more driver boards to solder up and the first 128 channels will be ready to go. I need to start finalizing the bulkhead wiring too.

g.

--

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Subject: Re: [simpits-tech] New vids!

Posted by [Roy Coates](#) on Thu, 29 Mar 2012 08:41:35 GMT

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Very cool, as always.

Please tell me more about those driver boards! For my last project I used 4 (yes, FOUR) phidget 16's to drive lamps'n'stuff and that gets expensive very quickly in the UK.

Roy.

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Subject: Re: [simpits-tech] New vids!

Posted by [Gene Buckle](#) on Thu, 29 Mar 2012 15:46:28 GMT

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On Thu, 29 Mar 2012, Roy Coates wrote:

> Very cool, as always.

>

> Please tell me more about those driver boards! For my last project I used
> 4 (yes, FOUR) phidget 16's to drive lamps'n'stuff and that gets expensive
> very quickly in the UK.

That's one of the reasons I designed the boards - the other is that the Phidget output boards are sink, not source devices. You can't pull much power through them either or you'll burn 'em up.

The board is simply 16 driver sets consisting of a pair of resistors, a 2N3904 transistor and a TIP-125 darlington transistor. The 2N3904 takes a 5v input to turn on the TIP-125. The board uses two power busses in order to allow you to have two source voltages on the same board if needed.

I can post the Eagle files if you want them. I paid \$103 about a year ago to have 16 of them made by Gold Phoenix.

g.

--

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Subject: Re: [simpits-tech] New vids!
Posted by [dabigboy](#) on Fri, 30 Mar 2012 04:40:50 GMT
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---- Gene Buckle <geneb@deltasoft.com> wrote:

>
> That's one of the reasons I designed the boards - the other is that the
> Phidget output boards are sink, not source devices. You can't pull much
> power through them either or you'll burn 'em up.
>
> The board is simply 16 driver sets consisting of a pair of resistors, a
> 2N3904 transistor and a TIP-125 darlington transistor. The 2N3904 takes
> a 5v input to turn on the TIP-125. The board uses two power busses in
> order to allow you to have two source voltages on the same board if
> needed.
>
> I can post the Eagle files if you want them. I paid \$103 about a year ago
> to have 16 of them made by Gold Phoenix.

I'm interested too.....I don't know much about board design, but I would be happy to send some documentation to a board builder for \$100'ish to get enough driver boards for my sim. I am just getting into Arduino with an Uno, It seems the way to go....VERY cheap, and very versatile.

Matt

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Subject: Re: [simpits-tech] New vids!
Posted by [Gene Buckle](#) on Fri, 30 Mar 2012 15:24:35 GMT
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On Thu, 29 Mar 2012, dabigboy@cox.net wrote:

>> I can post the Eagle files if you want them. I paid \$103 about a year ago
>> to have 16 of them made by Gold Phoenix.
>

> I'm interested too.....I don't know much about board design, but I
> would be happy to send some documentation to a board builder for
> \$100'ish to get enough driver boards for my sim. I am just getting into
> Arduino with an Uno, It seems the way to go....VERY cheap, and very
> versatile.

Matt, check out <http://geneb.simpits.org> - I re-posted what I put on another forum and I've included a zip file that has all the Eagle & gerber files. You must pay VERY close attention to wiring between the Centipede and the driver board! The Centipede uses a 20 pin connector - it provides 2 common pins on pins 1 & 2 and 2 ground pins on pins 19 & 20. The driver board is designed such that pins 1..16 are input pins and pins 17 & 18 are ground pins. This means that you need to make sure that pin 3 on the Centipede connector points to pin #1 on the driver board. Unfortunately I've been unable to find 18 pin ribbon cable connectors, so I used 20 pin connectors for the test rig. I've got actual crimp connectors for when it's actually built out, but those are spendy. (The connector bodies are dirt cheap, they get you on the crimp sockets!)

g.

--

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