From: **Don Smeller** donsmeller@earthlink.net
Subject: Wednesday July 15
Date: July 16, 2015 at 6:59 AM
To: 10BitWorks sa-hackerspace@googlegroups.com

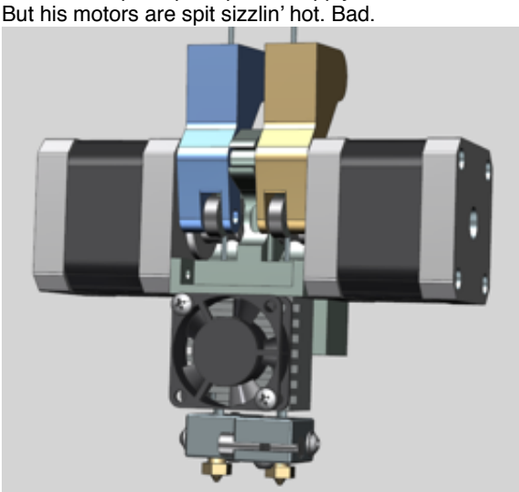
This report will combine Tuesday July 14th and Wednesday July 15th.

Ray Good found himself with practically the night off, only 3 people besides himself on Tuesday. Total 4.
That's because they all rushed the doors on Wednesday. 38 More!

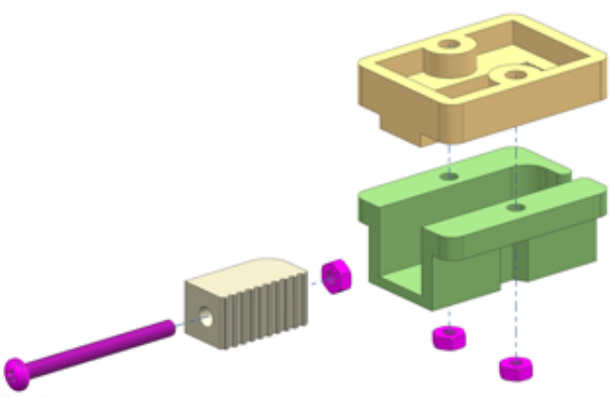
Peter Mancuso, ME student UTSA used the laser cutter on a thin sheet of white poly-something. He's working on a low tech aide for males with urinary aiming difficulties.

Kevin H(?) is a construction mason. Ray taught Kevin how to use Inkscape. Now Kevin cranks out his own house numerals and laser cuts them from thick clear acrylic.

Ray and Ken Runner are fixin' to upgrade their son and grandson (respectively) 3D printers to have dual heads with direct drive motors.
Ken has souped up his power supply from 12V to 24V. So now he can get his bed up to temperature in 2 minutes. Good, right?
But his motors are spit sizzlin' hot. Bad.



Ray printed up an idea for not only anchoring his toothed Y-belt but also for jacking in the tension. The 3D printer *IS* the project.



Girl Zone sent a bus load of 18 (including Mona and her 2 facilitators) for a 2 hour "summer camp" session at 10Bit. This group was middle school age; previous 2 weeks, they were elementary age.
Ahead of time, Jeremy made a run to a plastics house for colored acrylic. He kept the laser cutter going strong making fiesta metals and kitty faces.
Don kept two 3D printers running: The MakerBot knockoff, MBKO, printed a fob for Mona. The grandfather printer did a Thingiverse Batman bust.

We had numerous requests to take (and keep) our one and only PacMan Ghost. I had to say no, but I set the MBKO to printing 3 of them.

The ZIM was out of order, otherwise, it would have seen use during the Girl Zone event.
James got it fixed during the evening session, and he immediately set it to making parts for William, a Rensselaer Polytechnic student and Dominic, student at one of the Alamo colleges. They had used FreeCAD to design a prototype sensor to be attached to a glove for some kind of prosthetic hand.

On their lunch hour, Matt Grooms brought his IT buddy from work, John Garza. They were laying plans to upgrade 10Bit's router to handle more, more, more. Stay tuned. There will soon be a hard wire cable to the studio, just you wait.

Ryan brought in one of Les' electrocoagulation circuits and demonstrated its use under control of a Processing program. The polarity gets switched back and forth in an effort to keep the electrodes clean. There's a graphical user interface on the host

polarity gets switched back and forth in an effort to keep the electrodes clean. There's a graphical user interface on the host computer (Ryan's AirBook). It helps you keep track of what's happening. It's painfully slow though.

Mike Garis, Greg Bluntzer. They ate supper at the space. Hung out.

Robert, a teacher, and a father/son pair, Ernie/Luke, showed interest in learning SketchUp. So we 4 huddled in the studio and used the AppleTV and wirelessly projected Don's screen up on the Big TV and did an impromptu lesson. We were all Mac users, so, obviously, it went without a hitch. Luke is only 8, but he's quick as a blink, and he learned the basics. Before the night was up, both Robert and Ernie went on-line, joined 10Bit, put their money in the provided envelopes, and stuffed the tip jar. Ernie has a project in mind. He wants to customize the inside of a humidor with a plywood rack to hold several pipes. It's going to take some time because we had to start back with "this is a centimeter". But it's fun and he's going to succeed.

Matt, the boy next door, came running in on a mission to protect their homestead's parking space. I didn't recognize him. He's Cherokee and he had been wearing his jet black hair below his shoulders but now he's been shorn with a #2 clipper. Alas, we found the parking perp and the spot was amicably cleared.

A family of 4, last name Cruz, first names: Derek, Cedric, Gavin, (H.S. & M.S. age) and Mom Abigail took the James Manley patented tour. I rag on him, but James is really quite good at it, and most important, he's enthusiastic. You ought to join one of his tours. You'll learn something. I didn't get to talk to Cruz folks because I was doing the SketchUp thing, but, they asked James for a Family Discount. He said we could work something out. As far I'm concerned, they can all come in for the same one price of $40. What say you?

Randy came in with a broken something or other. He says, "Do you know what this is?" Ken Runner happened to scurry by and from 10 feet away says, "Hey what's wrong with your SPD?" I'm none the wiser for that helpful input. I guess you'd have to be a enthusiast to recognize the torture contraption that attaches your special biker shoe to the special biker pedal. Anyhow, Randy found all 14 ball bearings floating around in the grease and got them put back again.

Ken donated and delivered an industrial size heat press for T-Shirt transfers along with a supply of transfer paper. It's huge. It may just be the straw that breaks the camel's back, though. That's it, 10Bit is full, chock-a-block, over-flowing, crammed, packed, tamped down, bulging, dysfunctional.

Randy was just that moment telling about the funds available to non-profits. "Some philanthropist, at the very least, ought to be paying for our rent," he was saying. I can't tell you the number of people who have come to me with, "Hey, Don, you ought to apply for this, that, and the other grant." Folks, "you" is the wrong pronoun. "You", as in "you" all-powerful people on the board, ought to do the hard work of implementing my casual and obvious idea. It's a Do-Ocracy. A person doesn't need board approval, of if he/she does, the answer is yes, yes go out and find baskets of cash and bring it in. The operative pronoun is "I", first person singular. Committees of one, get things done. We don't have paid staff. We're all volunteers. Randy, I love you. Good idea. Just do it. Where's my soapbox?

For sure, we're going to need more space. 38 people on a Wednesday! More equipment every week! People joining by the carload.

Don S

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