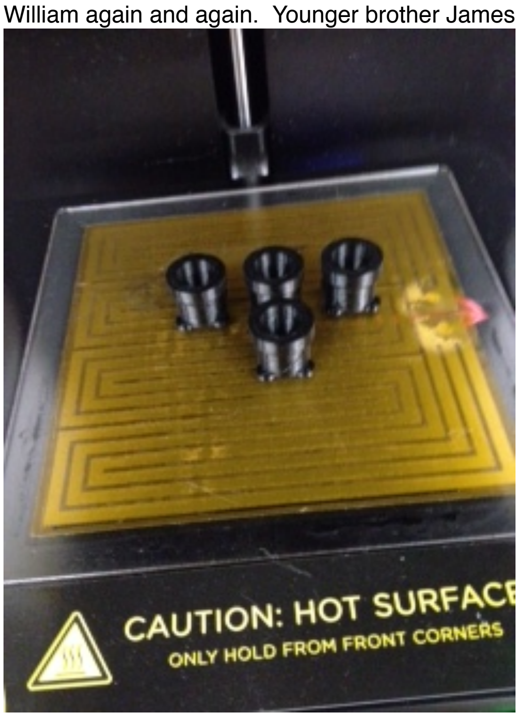
From: **Don Smeller** donsmeller@earthlink.net
Subject: Wednesday at 10Bit
Date: July 30, 2015 at 6:55 AM
To: 10BitWorks sa-hackerspace@googlegroups.com
Bcc: Don Smeller donsmeller@earthlink.net

Sean and Greg and Chris are forming the core of a quad-copter group. They worked on their quads Wednesday, soldering, wiring, test flying. Their plan is to have a regular meet-up on Sundays. As a kick-off, they will go to a flying competition put on by the Central Texas Drone Users Group that starts at noon Sunday Aug 2 at Olmos Park / Farmers Market. After some time there, they will repair (pun intended) to 10Bit and do a general meet-and-greet-and-build-and-learn session. Y'all come.

Sean also had an RC car tooling around the space. He placed a separate IR source on the floor as a beacon and he programmed the car to either avoid the beacon or to go to it.

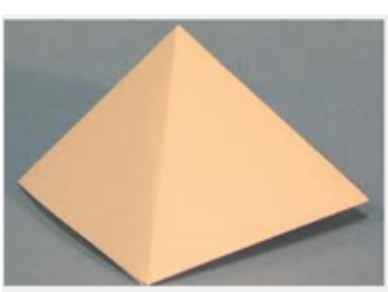
William, an EE student at Renssalaer Polytechnic (Troy, New York, on the Hudson River, 160 north of The City) lives here in San Antonio. His project for the summer is to make touch sensors for a robotic hand. Pictured are four spools printed on the Zim. They will be wrapped with copper wire, outfitted with spring loaded permanent magnets, and sewn onto a glove. The 3D print finished at 10:10PM. Start time was, what? 7ish? Looks like 45 minutes apiece. He needs 36 of them. We're going to see William again and again. Younger brother James tagged along.



Niti, from Thailand, just finished a BS, EE at Trinity. First time visitor, he took the tour, got an acrylic laser cut Fiesta 2015 10Bit Metal for his trouble.

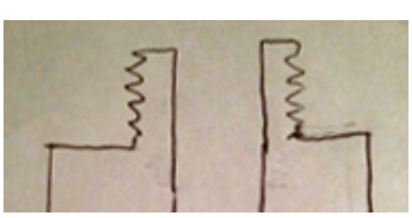
Ryan came by and videoed James giving the tour. The video will become part of 10Bit's on-boarding process. Also videoed was an electrocoagulation batch event. James has amped up the process to where it can clean a pint of black-acrylic-paint-laced water in about 2 minutes to the degree of clarity imposed by a UV light sensor. That's 2 minutes of real time, not just the speeded up time-lapse time.

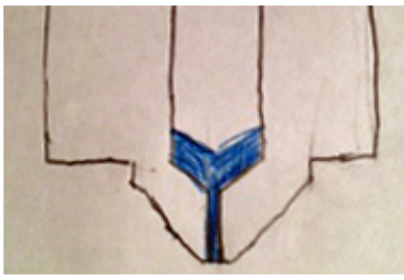
Estaban, high schooler from the UTSA part of town, laser cut plywood to make a sword for a CosPlay event this coming weekend. He designed the thing from scratch to have a heart shaped hilt. He used one of the vector graphics programs, Adobe Illustrator, I think. After laser-ing, we put the sanding disk on the table saw to dress the edges. Estaban's mother, Martha, delivered him to 10Bit and she patiently waited. She's a program tester for the IRS, the dreaded tax people. She got interested in the laser cutter, so we browsed the library of Rabbit Laser's canned projects. She chose a box in the shape of a square based pyramid. We scaled it to use a foot square of cardboard, and voila, she walked out with a palm sized pyramid.




Martha said she found us on Reddit, believe it or not. Apparently, 10BitWorks still is a very closely held secret, but the word is leaking out, slowly.

Don work on a procedure to un-stick hot ends. The basic hole is just a little larger than the 1.75 mm filament. I used a shorter-than-usual 1/16" drill bit, which is 1.57 mm, by hand, at idle moments, to drill out the hard-cooked filament to the level pictured. Next I'll dribble acetone down the hole and let it sit. The last step will be to poke a guitar string up and/or down through the .35 mm hole and drag it through several times, like using dental floss. The idea is to avoid using extremely tiny drill bits, which will break. And no power tools which will guarantee that the tiny bits will break off in the hole. Ken Runner, do you have any more of your steel wire guitar string?





Headcount: 11

Don S

This and earlier day-in-the-life-of 10Bit reports are archived on my Pi server at smelle Click on 141.