

Business Hours

Monday: 1:00 pm - 8:00 pm
 Tuesday: 1:00 pm - 8:00 pm
 Wednesday: 1:00 pm - 8:00 pm
 Thursday: 1:00 pm - 8:00 pm
 Friday: 1:00 pm - 5:00 pm
 Saturday: 9:00 am - 1:00 pm

Contact

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 Tim Haynes, Lab Manager
 Jim Correll, Director

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RODNEY WALKER

Entrepreneur ■ Speaker ■ Author



Last year, Independence Community College was introduced to this young man, Rodney Walker, who came to speak at the 2015 Innovation Summit. "I first met Rodney through the Ice House Entrepreneurship Program where he is a featured entrepreneur in the video series," said Jim Correll, Director of the Fab Lab and Successful Entrepreneur Program. "As we were planning the Innovation Summit, I decided to reach out to Rodney on Facebook as I thought he might be an interesting speaker. Rodney responded. We started talking and the next thing I knew, Rodney had agreed to come talk about his life growing up in South Chicago surrounded by gun violence and drugs, living in 15 different foster homes, and through an introduction to entrepreneurship and a mentor, Rodney climbed out of that situation, earning a graduate degree from Yale University. His emotionally charged presentation was showcased with a video, that he narrated to tell his story."

That was the "beginning" of ICC's relationship with Rodney Walker. Leaders at ICC were so impressed with him they decided to bring him back to help inspire youth in our communities of southeast Kansas. Although we certainly aren't an urban area like Chicago, we have many of the same issues with kids who live in poverty, are exposed to drugs and suffer from deteriorated family situations.

Continued on Page 2

Rodney Walker *(continued from page 1)*

After his debut at the 2015 Innovation Summit, Rodney returned to Independence and spoke to over 280 students and community members at ICC West. He also joined Fab Lab ICC to work on marketing materials to promote his new book and speaking engagements.

Rodney continues on his incredible journey, of which Independence has become one of his stops; the most recent and third visit was just last week to return as a speaker at the TEDxICC event on April 29. And now Rodney has become an author. You can read his full story in Rodney's new book "A New Day One" which made the New York Times Best Seller list. Released in mid-March it is now available on Amazon.com.

In July, Rodney will be speaking at a White House symposium on Foster Care in the United States. Keep watching as Rodney Walker emerges to bigger and greater things.



New York Times Square, featuring "A New Day One" on Marquee



Book signing following TEDxICC event



From City Slicker to Home on the Range in Southeast Kansas

Contributed by The Independence Daily Reporter March 31, 2016

Blowin' in the Wind



Takuto Kashiyama works on project, assembled from spare parts and "junk"

One man's trash is another man's treasure. In late January, a phone call came into the Independence Daily Reporter office from Tim Haynes, Independence Community College Fab Lab manager. He was inquiring as to where he could obtain some offset printing plates. Fortunately, the Daily Reporter had a few used plates that we could part with. Unknowingly, the Reporter's trash was about to transform into part of a vision that has the potential to become a treasure that could benefit the public. Enter Takuto Kashiyama, a freshman student at the University of Tokyo and a friend of the James Tuschman family of Independence. "I invited Takuto to come stay with us during his vacation from school to experience southeast Kansas and the Independence Community College," said James Tuschman.

The idea started when Kashiyama and Haynes got together and said along the lines of "wouldn't it be cool if we could make a wind turbine out of trash?" according to Haynes. That began their quest to find the right material and information that would lead to the development of a prototype wind turbine that could potentially provide electricity for a small home of 1,200 square feet. "We searched the internet and eventually found a design that looked like something we could build using tools that we had. Kashiyama revisited the website instructions a hundred times, double checking his progress. He made mistakes and would have to start again, all the time making sure that he didn't miss any details. "We contacted the Reporter hoping that they might have some material that would be flexible and we could use as the basis for our wind turbine. After obtaining the used plates from the Reporter we began work on constructing the wind turbine and hoping that it would work," explained Haynes.

The result of his hard work is a wind turbine that is functional and he is proud of. "It doesn't look or function like it would if it were designed by a seasoned engineer and made in a factory, however, it does work. "Kashiyama accomplished something that could be used to improve lives," Haynes said with enthusiasm. "What Takuto Kashiyama experienced is what we hope all that visit the Independence Community College Fab Lab experience sooner or later. We have the power to make things. It doesn't take any special training. It doesn't take money, and you don't have to have all of the answers before you get started," said Haynes. Each member or student who completes their first project at Fab Lab ICC immediately enhances their quality of life. Furthermore, it enhances the body of research that explains in detail that students who spend time in places like the Fab Lab perform better than students who don't, in all academic disciplines, not just STEM (science, technology, engineering, and math) fields. "With that attitude, we are changing Independence, southeast Kansas, and slowly, the world. We are proving that anyone, anywhere, can make almost anything. If they are willing to dream," concluded Haynes.



Test driving the wind turbine

From the
**DIRECTOR'S
CHAIR**

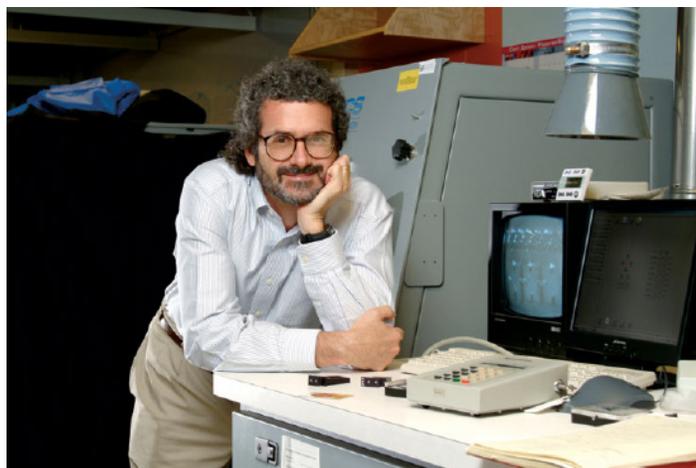


Jim Correll

There's a philosophy involved with operating Fab Labs and Maker Spaces that helps make them a special and positive experience for most users as they learn by doing.

Although not a registered trademark, "Fab Lab" (Fabrication Lab) is generally a reference to a type of Maker Space. For most of us, "Maker Space" is a more generic term for a space set up to allow people to make things.

The philosophy of most Fab Labs is patterned after the first Fab Lab initiated at Massachusetts Institute of Technology (MIT) circa 2000. Neil Gershenfeld, director of the Center for Bits and Atoms at MIT, grew tired of seeing smart students in his classes that couldn't do anything



The man that started it all, Neil Gershenfeld, director of the Center for Bits and Atoms at Massachusetts Institute of Technology (MIT) created the first fabrication lab in about 2000.

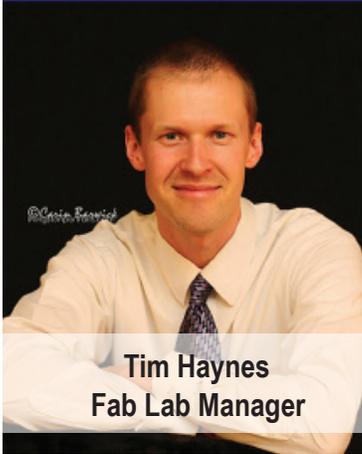
The Philosophy of Fab Labs and Maker Spaces



The Fab Lab maker experience boosts confidence in everyone regardless of age or stage of life. Dexter Small, left, and brother Maddix display the cow and family brand they cut out of aluminum sheet.

with their hands. He put together a fabrication laboratory so that students could begin to learn how to manifest their ideas into physical reality (i.e. make things). Then came a fabrication lab for the community in South Boston. Barcelona, Spain set up a community "Fab Lab" not long after and the International Fab Lab Network (IFLN) was born.

When we decided to create Fab Lab ICC in the spring of 2014, there were fewer than 200 Fab Lab members in the IFLN. Today, there are over 600. The growth of Fab Labs and Maker Spaces in the world is exploding as people in communities realize the positive and sometimes astounding effects that "making things" has on people's self-confidence. It doesn't seem to matter what age, stage or walk of life, the Fab Lab experience does wonders for all; young, old, gifted, challenged, technical or artistic.



Tim Haynes
Fab Lab Manager



Where's the
MANAGER

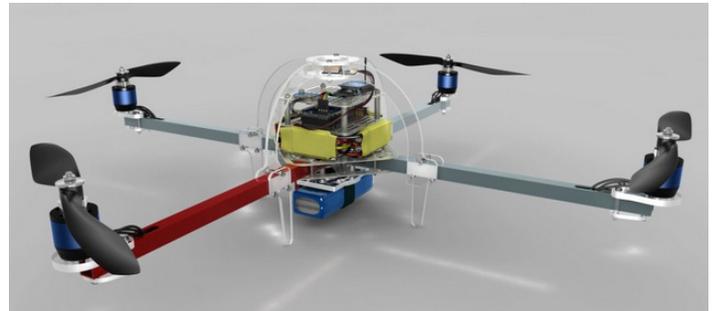
This month, the manager (that's me) finally moved into his new office... formerly the supply closet. There are still some supplies in there, but now there's also a desk, a chair, and a filing cabinet. Occasionally, I'm in there somewhere, too, so if you don't see me in the Studio or the Makerspace, you could check in the little room in the Makerspace, around the corner from the entrance.

Slowly, I am collecting supplies for a series of exciting projects we hope to implement during one of our exciting summer camp experiences. These projects, ranging from catapults to robotics, are geared toward students who are thirsty for hands-on experiences, with minimal theory or instruction. For the more advanced learners, I've assembled components that could be used for some exciting, and slightly dangerous, solar energy projects. Using lenses, mirrors, and steam power, we will learn together the theory and application of solar thermal energy, steam power, mechanical science, Newton's law, and so much more!

The goal with most of these projects is for the students to build something so exciting that they say, Wow! How did it do that? From that moment on, they are plugged into the



On Solar Energy and Arduino



kind of learning experience that we all know is the key to reengaging students in education. After talking about it for months, I finally started exploring the world of Arduino! These powerful microcontrollers are a versatile robotics platform that makes circuit building and programming fun! The simplicity of the programming language and the ease of assembling circuits is engaging to novices and veterans alike. It works like this: signal in > signal out. Stimulus > response. The device was designed to take an input – like from a button, switch, or sensor, and translate it into an action – like activating a motor, alarm, or light. This isn't intended to be a marketing plug for Arduino, but I am thoroughly impressed with how quickly I was able to start making small machines out of electrical components I was afraid to even touch just a couple weeks ago, for fear that something might explode. I'm not afraid of that anymore.

My first project will be a flying wing UAV that can carry a small payload, such as returning a book or a DVD to the public library. Eventually, I would like for projects like these to become so commonplace at Fab Lab ICC, that I don't even have to facilitate them. I want to keep pushing the limits of what we can do, because it's more fun to perform an experiment alongside people who are also experiencing it for the first time. From one day to the next, I still feel like most of what I do, I'm doing for the first time. My Fab Lab colleagues are first-timers, too, and they make very good company throughout this adventure.



June 7, 2016

Fab Lab ICC Studio

Located on the campus of Independence Community College, Independence, KS

Targeted for girls 7 to 10 years old

To Register: Go online to www.indycc.edu/makergirl or call: 620-252-5349

Maker Girl is an organization based in Urbana, Illinois whose mission is to inspire girls to be active in STEM (Science, Technology, Engineering and Math). It is led by university STEM women, teaching young girls 3D printing while teaching them about women leaders in STEM fields, innovative companies, cutting edge technology and much more. Learn more at www.makergirl.us

Offering 2 sessions of 20 girls each:

Session 1: 10:00 to 12:00

Optional Lunch: All 40 girls are invited to a pizza lunch from 12:00 to 1:00 p.m.

Session 2: 1:00 to 3:00 p.m.

Cost: \$10 for each session
\$ 2 for pizza lunch

Scholarships are available for those needing financial assistance. Contact Jim Correll for more information: 620-252-5349 or jcorrell@indycc.edu



Director's Chair (continued from Page 4)



The Fab Lab maker experience boosts confidence in everyone regardless of age or stage of life. Ben Eike, left and friend display a travel sculpture Ben made for his girlfriend's Christmas present.

The IFLN charter, to which we ascribe in order to belong to the network, requires that the Fab Lab facility be available to the community. We interpret that to mean in “an affordable manner”. We are a hybrid academic-community Fab Lab and we are committed to being open to the community at least half of normal business hours each week. We are open Monday through Thursday, 1:00pm to 8:00pm, Friday 1:00pm – 5:00pm and Saturday, 9:00am – 1:00pm. That’s 36 hours each week. The rest of the work week is available for classes and by appointment to members.

“Affordable” means that an individual can belong to Fab Lab ICC for \$100 per year, have access to all machines and only pay for or provide the materials used. Other categories are available and are also affordable. The membership fees alone will not sustain the on-going operation, especially considering the cost of staffing and machine repair/replacement. We’ll always depend partially on donations and grants. We’ll never be fully staffed as you would expect in a well-run restaurant or hotel, but due to our nature of being a “do-it-yourself” institution, it works. Our staff, always thin, helps out as we can. Our members help each other and in the process learn better themselves. We all work together to keep Fab Lab ICC safe, clean and ready for everyone’s next project.

Entrepreneur

Brown Bag Breakfast and Lunch Meetings

Independence

Since 2011, a weekly entrepreneurial lunch group has been meeting in Independence at the I-Mall, co-located with Ane Mae's Coffee and Sandwich House. It is an informal group of local business people, as well as community members and students who are interested in a myriad of topics, from entrepreneurial mindset to the importance of "character" to innovative ideas and products. "Each week a new topic is featured, sometimes with videos and sometimes guest speakers," said Jim Correll, Facilitator and Director of the Fab Lab ICC and the Successful Entrepreneur Program at Independence Community College. "We have some interesting discussions about how to improve the customer experience for local businesses, do's and don'ts. Some business owners who attend have been active in the community for many years and offer advice and their experience to those who are thinking about starting a business. It has been a win-win for the community."

If you are interested in attending, meetings are on Mondays and have lunch starting at 11:30 in the conference room on the west side of the I-Mall, 325 N. Penn. You can brown bag it, or get something from Ane Mae's. The meeting is from 12:00 to 12:30 p.m.

Coffeyville

The Independence meeting has been so popular that a request was made to also have something similar in Coffeyville. In September last year, thanks to CRMC CEO Mark Woodring for providing meeting space, we began an Entrepreneurial Breakfast Meeting at CRMC in the 2nd Floor Conference Room. The meeting has similar content as the Independence meeting. We arrive between 7:30 and 8:00 a.m. and breakfast is available in the cafeteria to bring into the conference room. The meeting is from 8:00 to 8:30 a.m.

We invite anyone, whether you are thinking about starting a business or you just want to be more a more entrepreneurial thinker in your current job, to join us.

For more information, contact Jim Correll at 620-252-5349 or jcorrell@indycc.edu.

