

# GO PIONEER



## PRINTING

Learn all about this disruptive technology and how it's changing the world.

### EDITOR MUST READS:

What is disruptive technology?  
PG. 01

How 3D printers are changing lives  
PG. 07

## PAWSITIVELY DELICIOUS

Treats for the REAL favorite in the family.  
PG. 15

A photograph of a man and a woman smiling. The woman is in the foreground, wearing a black and white plaid shirt, with her hands clasped on a desk. The man is standing behind her, wearing a grey button-down shirt. On the desk to the left, there is a stack of books.

**FOCUS**

**ON.** Paper Pages  
Bookstore

December 2022

# Letters from **LEADERS**

**Brenda Walta** - VP Finance & Administration



'Tis the season to be jolly! Christmas season has arrived. With Christmas brings rich traditions and I can't help but look back to traditions from my childhood that I enjoyed.

Helping mom put up our Christmas decorations each year always kicked off the Christmas season for our family, and baking cookies and candy for the holidays provided us quality time together. For us, driving around to look at Christmas lights was one of the big events for our family, and by the time Christmas Eve would arrive, there was always a hustle and bustle to get everyone ready for Christmas Eve mass.

We always went early to mass, but on Christmas Eve, the choir would sing before mass which made the extra time in church so enjoyable. Christmas Eve mass was such a joyous event. After mass, we would get to open one present, so my brothers and I had been scoping out which present we would pick. All the excitement on Christmas Eve made going to bed that evening a challenge. It was always worth waking up on Christmas morning to see what Santa brought each of us. What were the traditions you enjoyed as a child? Have you kept those traditions going and added any new family traditions?

Christmas traditions have changed in our home over the years. When the kids were young, they were excited to decorate our home for Christmas. Now, they have their own homes to decorate. My daughter and I still get together to make Christmas cookies and candy. Christmas music is always playing while we are baking. We have a great time together. We continue our family tradition of going to mass on Christmas Eve and we enjoy a wonderful dinner on Christmas day together.

Christmas is a wonderful time to be thankful. It is a great time to look back on the year to appreciate the blessings we received during the year. It is a time to spend with family and friends. Remember to take time to enjoy the holiday season; it only comes once a year. I hope you and your family have a very Merry Christmas and Happy New Year!

## Welcome to GoPioneer!

**O**ur mission is to help the communities of Pioneer learn, evolve and move forward in the ever-changing world of technology.

We welcome feedback, story ideas, or any questions relating to this magazine, previous articles, or even your personal inquiries.

Baffled by your teen's obsession with emojis? Confused about why you get Wi-Fi in the garage but not in your bedroom? Let us know! This magazine is just as much yours as ours, and we are excited to help you become more adept in the tech world.

## Contact Us



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## Topic of December 2022:

### Disruptive Technology

This holiday season we're learning about one of the coolest technologies on the market: 3D printers.

There's a good chance someone in your family owns a 3D printer and produces their own products like jewelry, plant pots, or even figures, but what all can they *really* do? Well, almost anything.

Dive deep into the world of 3D printing and discover how this technology is upsetting some of the world's most lucrative industries.

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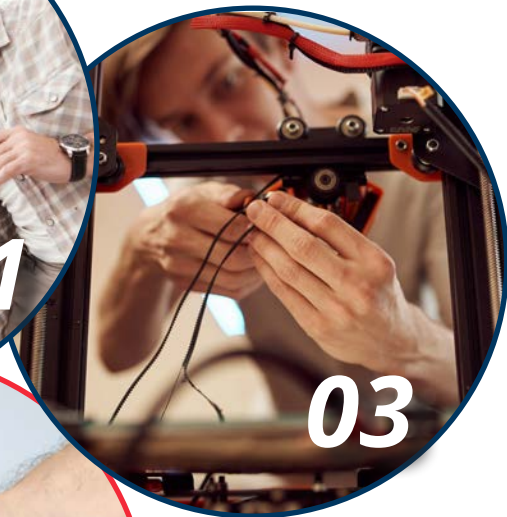
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# What is Disruptive Technology

**Disruptive technology sounds intimidating** and even a little destructive. However, disruptive technology isn't bad, but rather a sign of change!

Disruptive technology is an innovation that significantly alters how consumers, industries, or businesses operate. This type of technology sweeps away the systems or habits it replaces because it has notably superior features, but usually the transition is smooth and rarely noticed. You can see disruptive technology in almost every industry in the world.

Some of the most recent disruptive technology examples include e-commerce, online news sites, ride-sharing apps, streaming, and GPS systems. You might not support some changes we've seen in the last few decades, but that doesn't make them less important. The automobile, electricity service, and television were disruptive technologies in their own time. People

who watched those technologies evolve might not have supported them either, but now they're staples to modern society.

Long story short, disruptive technology isn't anything evil, but rather an important part of human evolution!

## **Disruptive technology is *NOT*:**

Bad for the economy

Unnecessary

## **Disruptive technology *IS*:**

Vital for innovation

Important for change

## What does it mean for the world?

### **Companies may recognize the potential**

of disruptive technology in their operations and target new, niche markets that fit in their business. However, it's often start-ups that introduce disruptive technology to existing markets. Companies that introduce new technology are called "innovators" and many companies might take a risk-averse position and adopt innovation only after seeing how it performs for others.

Netflix is one of the best examples of a company that's used a disruptive technology to transform an industry. Netflix started as a company supplying DVD mailouts, a cost-effective and convenient alternative to traditional movie rentals. They didn't make a profit right away and certainly didn't pose a threat to media giants like Blockbuster, but with profit came confidence. In 2007, Netflix disrupted its own business model and introduced streaming media and video on demand. This gave them the edge they needed to slide into the competitive space of movie-rental

services and, eventually, come out on top.

It's important for industries to account for the effects of disruptive technology, or they may find themselves losing ground in their own market space.

### **Famous Disruptive Technologies:**

Digital Transport Services - Uber

Virtual Reality - Samsung

Online Lodging - Airbnb

Collaborative Commerce - Amazon

Online Encyclopedias - Wikipedia

# TOP 4 Disruptors

## WEARABLE TECH

Wearable technology is any electronic device designed to be worn on the user's body. It could be jewelry, socks, pants, glasses, or even belts! The most common wearable tech are smartwatches like the Apple watch.



The global market for wearable technology was valued at

**\$52.14** billion in 2021.

## AUTONOMOUS VEHICLES

Autonomous vehicles can drive themselves using various in-vehicle technology to sense its environment and move safely with little or no human influence.



The insurance industry will face a disruption of

**\$240** billion

with the switch to driverless cars.

UTDALLAS.EDU

## And the Editor's personal favorite...

## 3D PRINTING

3D printing allows people to create what they need in-house. With the right equipment, software, and materials, we can print virtually anything.



The global market for 3D printing is expected to reach

**\$463.5** billion by 2028.

REPORTERLINKER

## DRONES

Drones are being implemented in several fields like logistics, insurance, traffic, agriculture, and many more! Companies are developing new applications every day.



It's predicted that the drone market will reach

**\$22** billion

by 2041.

IDTECHEX

Let's dive deeper into this cool technology!

# 3D PRINTERS They're Older Than

The first SLA (stereolithographic apparatus) machine is produced by 3D Systems. It uses a UV laser to solidify photopolymer and create three-dimensional parts layer by layer.

Scientist engineer a functional kidney that is able to filter blood and produce diluted urine in an animal. The Wake Forest Institute for Regenerative Medicine begins research to print organs and tissues using 3D printing.

1992

2002

1980s

1990s

2000s

1984

Charles Hull invents stereolithography, the first commercial rapid prototyping technology commonly known as 3D printing. Charles would later become the co-founder of 3D Systems.

1999

The first lab-grown organ is implanted in a young patient. Using a 3D synthetic scaffold coated with the patient's cells, this opened the door to developing other strategies for engineering organs. Because printed organs are made with the patient's cells, there is little to no risk of rejection.

## 7 INDUSTRIES USING 3D PRINTING

Automotive

Aviation

DIY

Manufacturing

Movie Industry

Health

Jewelry

When you think of 3D printing, you probably think of cool trinkets you find at the local farmers market or the occasional Facebook video. However, 3D printing is one of the most prevalent technologies we have! Virtually any industry could use 3D printing for something, but some are definitely finding this technology to be more useful than others. To the right, you'll find seven industries that have started implementing 3D printing technology!

# n You Think

## HOT ZONE

The first SLS (selective laser sintering) machine is launched. This printer is capable of handling metals like steel, titanium, and others.

2006

The first SLA (stereolithographic apparatus) machine is produced by 3D Systems. It uses a UV laser to solidify photopolymer and create three-dimensional parts layer by layer.

2011

2010s

THE FUTURE?

2008

The first person walks on a 3D printed prosthetic leg. All parts were printed without any assembly including movable parts like the knee and socket.

2015

Cellink, a Swedish company, introduces bio-ink, which can be used for tissue cartilage printing. They later released the Inkredible 3D printer which made bioprinting affordable.

Eventually, 3D printing will lose its “new technology” status. As it develops, 3D technology will become more sustainable and cost-efficient, particularly for the manufacturing industry. This technology is special because it’s limits are...well, limitless. 3D printers will only get bigger and better, meaning they will be able to work on industrial-type projects and even offer personalized and on-demand goods for consumers. 3D printing is poised to transform the world as long as we’re willing discovering all it can do.

# THE FUTURE?

# How They Work

**3D** printing uses computer-aided design to create three-dimensional objects through layering materials like plastic, composites, or even bio-materials. 3D printing requires very few steps, making printing easy and accessible to almost anyone. At the minimum, you need to go through four steps when wanting to print a model: modeling, slicing, printing, and post-processing.

When printing something, you can either create your own model using computer-aided design (CAD) software like 3D Builder or ScultGL or even download model files other users create, which is good for quick printing or editing to fit your own needs. We won't dive too deep into the science and tech, promise, but what you need to know is that the benefit of 3D printing lies in how flexible it is.

3D printing isn't just a fun tool for people to make models; it also helps small and large businesses in their production process. 3D printers are extremely flexible in what they can print. They can be used for rigid materials like sunglasses or vases, flexible items like phone cases, or even strong industrial products like wall panels.

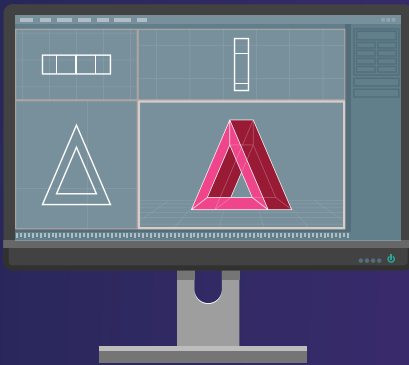
There are many benefits to having a 3D printer for businesses

that can utilize them, but one of the most useful is the printer's ability for rapid prototyping.

3D printing is low-risk, low-cost, and extremely fast. This allows companies that need to test and prototype products for efficiency and development. With 3D printers, companies don't have to rely on outside companies, expensive models, or tools. They can even manufacture their products in-house if they need to produce small batches or short runs. Compared to traditional manufacturing methods, 3D printing doesn't require large batches of raw materials. Instead, 3D printers can calculate and use the exact amount of resources needed for their products. Because 3D printing costs less than traditional manufacturing, businesses can experiment with different materials and designs if needed. Meanwhile, the conventional design process would need a significant investment of time and resources for extensive testing.

With 3D printing more accessible than ever for businesses and ordinary people, this unique technology can upset the manufacturing business itself and dozens of other small and large businesses .

## Breaking it Down



### 1. The Model

When creating a model, you use computer-aided design (CAD) software like 3D Builder, or ScultGL. You can also download model files other users create, which is good for quick printing or editing to fit your own needs.



### 2. Slice to Read

Slicing allows 3D printers to calculate the route and amount of filament required to print the model. You need a slicing software like ideaMaker to generate a GCode file, a long list of instructions for the 3D printer to read.



# Industries To Watch

As 3D printing continues to evolve and as technology advances, more and more industries will unlock its potential and uses it in their craft. There are already dozens of industries being affected, like oil and gas, fashion, and the toy industry. However, here are two of my favorite industries being disrupted by 3D tech.

## Bioprinting and Regenerative Medicine

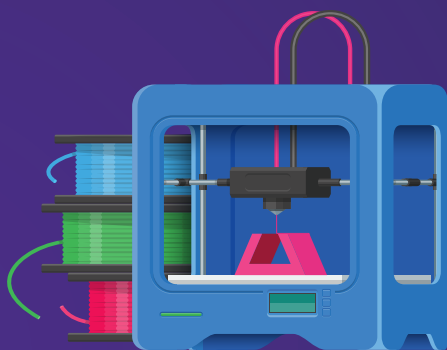


The possibilities for 3D printing in medicine are limitless. This technology is already being used to create patient-specific implants, prosthetics, and dental devices. What's even more amazing is the research in bioprinting, which could help create a fast and sustainable way of producing complex transplantable human tissues and ultimately organs. Though it might sound unreal, bioprinting could eliminate organ waitlists and lower rejection rates for patients.

## Film and Television



3D printing has become a great way for filmmakers to create realistic and detailed props. One of the best examples of 3D printing in media can be seen in *Black Panther* and *Black Panther: Wakanda Forever*. Thanks to the unique design capabilities 3D printers offer, designers were able to create the massive crown and curved mantels you see worn by actress Angela Bassett as Queen Ramonda. As more film studios realize the possibilities of 3D printing, traditional set designers may find themselves having to shift mediums.



## 3. Printing

Printing is the easiest part! Your printer will use the slice file to print. Most printers need help from you to calibrate, which can require different steps and walkthroughs for your printer type.



## 4. Making it Pretty

Post-processing is a fancy way to say 'make it pretty'. Post-processing requires steps like removing support from the model (if you used any), sanding to make the model smoother or even assembling pieces to make a complete model or product.

# 3D PRINTERS

# How They're Chan

As we've learned, 3D printing is already changing the lives of businesses and manufacturing services across the globe, but what about the people at home?

The low cost of printers, access to free software, and the sharing-based mindset around designs online are cutting out many intermediaries. No longer do people have to wait for life-altering devices from large companies or purchase new products when they just need a part.

One of the most notable perks of 3D printing is how it allows for ingenuity and opportunity. 3D printing has the chance to make things more accessible, especially when it comes to disabled people.

In the world of Big Business and Big Pharma, getting equipment and accommodations for your disabilities can be impossible; if they are, they're usually expensive. This is often referred to as the "CripTax" online, which umbrellas over hidden costs and the price of useful products and services that are prohibitively expensive and not covered by insurance. This is something 3D printing can and already has changed.

A particular area I love to see evolving thanks to 3D

printing is prosthetics. In the past, prosthetics were seen as a luxury and typically saved for the wealthy. In the U.S., there are close to 200,000 amputations performed each year, yet the price of a prosthetic could be anywhere between \$5,000 and \$50,000 with the average lifespan of each device being about five years. Uhm, what?

The price makes sense when you consider the work that goes into making one. Prosthetics are very personal items that take weeks to months to make. There are no one-size fits all solutions; each prosthetic must be custom-made for the wearer. However, 3D printers offer a sustainable and legit solution for making these devices more affordable.

I suggest exploring the National Institutes of Health **3D Print Exchange** if you want to learn more about 3D printed prosthetics. This exchange is made up of volunteers that include engineers, designers, physicians, and more who share open-sourced files for the design and constant evolution of a 3D hand.

The opportunities that 3D printers offer are limitless, check out another cool accessibility story below!

## Seeing Change In Action

TikTok Spurred a 3D Creation to Help People With Parkinson's



Credit: Jimmy Choi - Instagram @jfoxninja

### It all started with Jimmy Choi

Jimmy Choi was diagnosed with young-onset Parkinson's disease at age 27 in 2003. Parkinson's is a progressive disorder that affects the nervous system and leads to issues with tremors, movement, balance, and much more. According to his profile on michaeljfox.org, Jimmy was in denial and didn't attempt to manage his symptoms until 2010 when he fell down a flight of stairs while holding his son. Since then, Jimmy has become a figurehead and advocate for the Parkinson's community. With the help of physical therapy, Jimmy has competed in over 100 half marathons, 15 full marathons, multiple Spartan Races, and much more. He became particularly famous in 2017 after competing on NBC's "American Ninja Warrior".

[michaeljfox.org/bio/jimmy-choi](https://michaeljfox.org/bio/jimmy-choi)

# ging Lives



## The spark for change came in a TikTok Video

Jimmy has over 150,000 followers on TikTok, where he often posts himself performing physical challenges and raising awareness of Parkinson's and the symptoms that come with it. In December 2020, Jimmy posted a video of himself struggling to take his Parkinson's medication. "Hey Parma companies...get a clue!" reads the caption below a video of Jimmy's shaking hand attempting to grab a ridiculously small pill.

## A new advocate, Brian Alldridge

Videographer Brian Alldridge saw the video and said it "upset him enough" that he spent a "few days" learning Fusion, a CAD software, to design a pill container to try and help Jimmy. The bottle base was supposed to rotate and isolate a single pill so that someone with Parkinson's could "throw it back like a shot glass."

Brian didn't have a 3D printer to prototype and test the bottle, so he looked to viewers for help, offering to forward his designs to anyone willing to print and test it. He expected to hear from a couple of people, but when he checked the next day, thousands of TikTok users were offering to print the prototype or commenting that they knew someone who could benefit from the product.



David Exler / @HungryEngineer

## Do you know someone who needs an accessible pill bottle?

3D (SAD) files for printing:



Accessible Pill Bottle  
Thingiverse.com  
by @HungryEngineer



Pill Dispenser  
Thingiverse.com  
by @jbobinski

You can visit [Etsy.com](https://www.etsy.com) and search 'Parkinson's pill bottle' if you don't own a printer!

## The Engineer, David Exler

For a while, the TikTok community printed and evaluated versions of the pill bottle and even sent prototypes to Jimmy to try out. It eventually landed in the hands of engineer David Exler who ran the TikTok account @hungryengineer. David worked closely with Choi and sent out many prototypes to other people with Parkinson's in exchange for donating to the Michael J. Fox organization.

## What happened?

After the initial movement and push from news, it might seem like the hype around the pill bottle disappeared. While there hasn't been any new news covered since the story dropped in 2021; it's pretty easy to find the free-to-use and open-sourced files online! If you don't have access to a 3D printer, you can always check out sites like Etsy and have someone ship one to you!

# Small Town Blessing

Crescent's Beloved Bookstore Credits their Success to their Community

Small towns are known for unique shops and family-owned restaurants, but Crescent, Oklahoma, has its own beloved cornerstone: Paper Pages Bookstore.

Russell and Karen Payne always wanted to open their own business, but it was never an urgent need. Both Russell and Karen had jobs they enjoyed. While Russell maintained elevators across Oklahoma, Karen worked under a general surgeon.

"He was very accommodating, so I never had to worry about missing my kid's ballgames or field trips," Karen said, "But he ended up having to join a hospital, so all those wonderful things about working for private practice went away for big business. That's when we really started thinking about opening our own business."

Though the Paynes had 'open a business' on their bucket list, they never had an exact business in mind. Russell left the brainstorming to Karen after they outlined a few criteria together.

"There were some things that we wanted to check off when deciding what business to open. One, we want it to be here in Crescent. It had to be something that we both love. And finally, it had to be a community building and community-oriented business," Russell said. "We wanted a business that would be good for Crescent, in general, wanted it to be a local promoting business. We just wanted

to have a place where somebody could come and just enjoy."

The Paynes wanted a business that "would be something for everybody," and in the end, there was one business idea left: a bookstore.

"This was when Amazon was really getting big and popular for people to order things, especially books, so when I was researching, everything was saying 'don't do a bookstore,' because bookstores were struggling," Karen said, "but bookstore always fit. Crescent is a small community, and we wanted a business that could cater to everyone."

The Paynes "got the keys" to the property in March of 2018, but it would take nine months of renovations before they would open Paper Pages Bookstore.

"We would be up here so late at night working because of Russell's job. So, all the construction and the building were done when he wasn't at work," Karen said. "We would have people pop in and ask questions like: 'What are you doing up here?' or 'You sure are working late, what is this place going to be,' but when we would tell them it was going to be a bookstore.... no one ever said, 'What a great idea!' We even had one person say, 'do people even read books anymore?'"

Though the comments were discouraging, the Paynes never second guessed their choice.



at a glance

## Q+A

**What moment in life are you most proud of?**

In business? The day we opened the bookstore for sure. — **Russell**

Or when we got nominated as Oklahoma's best bookstore in 2022. — **Karen**

**On a hard day, what inspires you to get out of bed?**

I'm going to get really sweet, but then I'm going to deny it... I would say Russel inspires me. — **Karen**

Doing what you love. We love this store and doing this...it's the best thing ever. — **Russell**

**What is something you've never been good at doing?**

I can't drive on ice, but at least I admit it. There's so many bad drivers on ice that should stay home...I know I'm a bad driver and I choose to stay home. — **Karen**

Penmanship, you can't read my writing. I'm also bad at remembering a grocery list — **Russell**



An inside look at Paper Pages Bookstore.



Courtesy Photo: An outside shot of Paper Pages Bookstore in fall of 2021.

## with Russell and Karen

Haha! That's why our grocery store is used to seeing him more than once in the same evening. -Karen

Russell and Karen asked that some space be reserved for their wonderful vendors! You can find the following at Paper Pages Bookstore:

**Serendipity Pottery**

**D&S Designz**

**The Minted Feather**

**Songbird Boutique**

**Spreading Sunshine Cards**

**RDC Bookmarks**

**Kelcey's Pens**

**Boutique It**

**Rural Route Coffee**

**Pastries from Quincy's Bake Shop**



Scan here to go straight Paper Page's Facebook!

## The Start of Success

Paper Pages officially opened December 1, but the Paynes didn't kick start their community outreach until January with their first book club.

"I was so excited, and I just prayed so hard: 'Please, God, let there be more than five people come to my book club.'" Karen said. "At that time, I didn't know how many people to expect or even if one person would walk through the door, so we set up five to 10 folding chairs and I was on pins and needles. I had snacks; I had the whole thing ready to go."

They had 36 people show up. No one was more surprised than Karen.

"I was like, 'where am I going to put all these people? Where are the other chairs, where's this, where's that—' I scrambled because I really was just praying so hard to have at least five people."

## SPREADING OUT

The Crescent community opened its heart to Paper Pages, and Karen and Russell haven't hesitated to give time, effort, and love right back. Karen often has customers come to her with an idea, and she runs with it.

"I had one customer say, 'you should do a gardening book club,' so we started this gardening book club and managed to get a professor from Langston to come and teach us during it," Karen said. "We had so many people sign up, and we even went behind the scenes at some different nurseries. It was very educational."

Karen believes that taking ideas and moving forward has been a theme for the bookstore.

"We would come up with this little idea, and then it takes this whole life of its own and explodes into this big thing," Karen said. "It started with the book clubs, then suddenly we have a gardening club and a cookbook club."

The Payne's mission to 'support local' is certainly a success and ever-growing. The bookstore has led to the Payne family being involved in Crescent Public Schools' book fair, the Chamber of Commerce, Christmas in Crescent, local scholarships, and much more, but Karen and Russell don't take credit for any of it.

"We really wanted to have different ways to give back to the community and it's through the bookstore that we got to

do that," Russell said. "Most of our ideas were sparked by bookstore customers."

## REFLECTING ON BLESSINGS

Though Paper Pages is a standing business in the community, they believe their customers have done more for them.

"It's important to us to give back because everyone gives to us so generously. I still can't get over the fact that we survived the pandemic, and that was because of our community," Karen said.

Shortly after the store had opened, Paper Pages closed for the COVID lockdown. The Paynes had to create revenue, so they began posting books on their Facebook page.

"I was coming home and delivering books to people's houses almost every night," Russell said, "and not just to Crescent. We were delivering to Guthrie, Cashion, or even North Edmond."

The support and outreach they received is something the Paynes are eternally grateful for.

"They bought it from us because they wanted to help us get through the pandemic. It's hard to compete with stores like Amazon and these people... they didn't do it. They chose to support us."

Karen and Russell give back every chance they can. Whether through raising funds for a yearly scholarship or acting as a vendor for local artists and smaller in-home businesses.

"I think we were meant to do this, and we thank God every day that he allowed us this opportunity," Karen said. "People will tell us our store is such a blessing for them, but I feel like it's the opposite: I feel like everybody's blessing us."

Paper Pages bookstore offers pastries, book clubs, local coffee, and much more. You can find Paper Pages bookstore on Facebook or visit the store at 117 N. Grand in Crescent, OK.



# Did You Know?

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GoPioneer's mission is to help educate people on technology, which means we want this to be more accessible for everyone, whether they live near or far from our headquarters.

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tech know-how or likes to learn something new, then this is your chance to tell them about GoPioneer! All they have to do is visit the website and give us a name and an email. If you're already getting the magazine, there are perks, too, including getting the magazine up to four weeks early! As always, thanks for reading the magazine. I hope you learned something new. :)

Happy Holidays!  
Madison McCollum  
GoPioneer Editor

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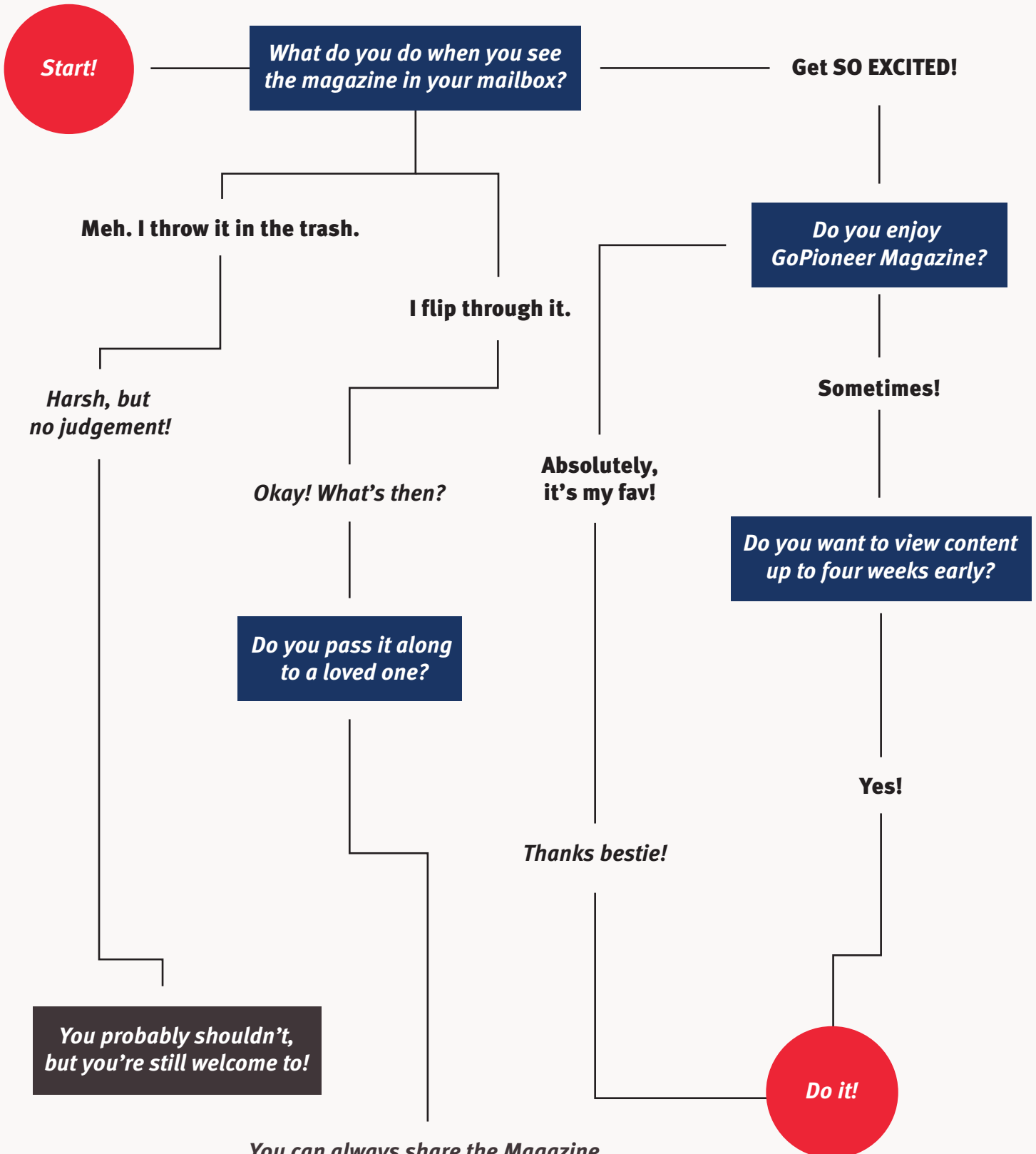
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MEET OUR PIONEER SCHOLAR  
**Reagan Detrick**

*District 7: Ringwood Oklahoma State University Major: Secondary Education - English*



**F**or Junior Reagan Detrick, the passion for teaching has been passed down two generations. Reagan will be the start of the third in the Detrick family.

"We've always had family members in education. My grandpa was an AG teacher and a superintendent, then my dad was an AG teacher and superintendent," Reagan said. "I just fell in love with how they got to interact with students and the impact they've had on peoples' lives."

Though her father and grandfather taught agriculture, Reagan is choosing to walk down a different path.

"Right now, I'm interested in secondary education and English, so hopefully I'll end up teaching high school English," Reagan said. "But I've also taken an interest into special education so that interest could lead me to a special education classroom."

Though Reagan may be choosing a different subject to teach, that doesn't mean she hasn't learned from those before her.

**"I just fell in love with how they got to interact with students and the impact they've had on peoples' lives."**

"I would say I look up to my dad the most. He's the one that gave us a love for education and I admire the qualities that he has as an administrator," Reagan said. "The compassion that he has for staff and his students is one that I really enjoy because most educators don't get that privilege of having administrators that truly care for the students and the staff."

Reagan will begin observing classrooms next semester and student teaching in fall of 2023.

"I want to do my student teaching somewhere in the Stillwater area," Reagan said, "but outside of that, I will go wherever the Lord send me sends me for my first couple years of teaching."

**"If I can be that positive interaction, or just the encouraging hand behind them, then that would be enough."**

Reagan plans on staying in Oklahoma when she becomes a teacher. She doesn't just hope to help educate young students, but also be a positive part of their life.

"There's a lot of kids today that come into schools and that's the only love or positive interaction they get," Reagan said. "If I can be that positive interaction, or just the encouraging hand behind them, then that would be enough."

Reagan began her education at Northern Oklahoma College in Enid, which was much cheaper than Oklahoma State University. It's one of the reasons she applied for the Pioneer scholarship.

"The Pioneer scholarship helps in multiple ways, but I'm very thankful for the financial aspect of it."

For Reagan, one of the biggest challenges was having to practice social distancing for her first two years of school.

"I would say my biggest accomplishment is meeting all these people on a new campus and getting back to a normal life post COVID," Reagan said. "Some people don't consider that an accomplishment, but for someone that thrives on human conversation it is a big one."

Reagan is focusing on finishing up her semester and preparing for observations in 2023. She will graduate in Spring of 2024.

## Q&A

### **What is your biggest fear?**

Snakes. I hate snakes. I just don't understand why they don't have legs.

### **If you could change one thing about yourself, what would it be?**

If I could change one thing about me... it would be my bluntness. Sometimes, I speak my mind and sometimes it comes across rude, but it is always out of pure love. I think I would change how I approach that.

### **What is the best compliment you've ever received?**

The best compliment I've ever received was from my grandmother. She told me that she loves how I see people's hearts first and then their physical attributes.

### **What do you consider the ultimate comfort food?**

My mom's chicken fried steak and mashed potatoes.

### **Would you rather be an expert at one thing or are pretty good at many things?**

I would say pretty good at many things. If you're just an expert at one thing you're not able to help as many people as if you were pretty good at many things.

### **Are you a dog person or a cat person?**

Oh, dog for sure. Cats can exist, but I'm just not a big fan of them.

### **Everyone has a favorite hero, but do you have a favorite villain?**

I'm not really into like Marvel. My brother-in-law... He's thinks it's weird. I spent a lot of time watching Westerns growing up, so I guess my favorite villain Billy the Kid.

### **If you had to eat one food for the rest of your life, what would it be?**

Grilled chicken. You can put it on almost anything. Salad, pasta— anything.

*“Be careful, they might take a bite of your hand.”*

# Beef Dog Treats

## ingredients

1 pack beef liver  
parchment paper

***Yep! That's it!***



*You can use an air fryer with a 'dehydrate' method OR your good ol' oven for this!*

Cut your parchment paper to size to fit on your rack.

Remove liver from packaging and rinse under cool water. Shake off excess water.

Using a sharp knife, cut liver into pieces. Try and keep them the same size. Place them on the parchment paper and spread them apart evenly.

Place meat in oven and bake at 250°F and bake for 15 minutes. (This is called "flash baking" and rids the meat of any Salmonella and E. coli). Next set your oven to 130-140°F and bake for up to 8 hours.

Remove dried liver from tray. You can store in a closed container in the refrigerator for a week or in the freezer for up to two months!

**F**or the dedicated Dog Mom, treats can be expensive... even more-so when you have to feed small treats to very big dogs. A pack of quality, meaty treats could cost anywhere from \$7 to \$33 and it always seems that the most expensive treats go the quickest.

Having three dogs— a lhasa apso, doodle, and dane— treats go quick, so I turned to the internet and found a cheaper (and far more delicious) solution: beef liver.

This stuff is cheap— less than \$4 for a stupid amount of treats and the best part? The dogs love it, even the picky ones.

It's taken a few tries for me to get it right, but here are the tips I have for this jerky:

1. Flash bake!! It's important for killing all the bacteria and keeping the food safe.
2. You can totally use the dehydrate feature.
3. Make sure they're about the same size, otherwise some of the pieces may be crispier than others.
4. You'll make mistakes and it might take time to get it right, but even if the jerky comes out a little charcoaled, your dogs will probably go nuts over it. Nothing ventured, nothing gained!
5. It is human safe and...honestly? Not the worst thing I've tried, so if you're *really* hungry you have a snack on hand.

That's all I've got! Treat your four-pawed besties to something special this holiday season but, be careful, they might take a bite of your hand in their excitement.

**Madison McCollum**  
**GoPioneer Editor**



**Whisk**



**Ruger**



**Bruce**

*Three dogs that will, probably, eat me out of house and home.*

# THROW BACK

## BYE BYE, 2022

*Here are some of our favorite moments from 2022! We hope we get the chance to see some of you next year!*



*Lori Flansburg, Executive Director of Connections Food and Resource Center [truck], Shay Hicks Lead Retail Sales Rep. Wireless Sales [front] and Cindy Gore, Public Relations Specialist [right], getting ready to unload a donation from Kingfisher, OK.*



*Our new General Manager, Blake Callaham, speaking at a Weatherford Coffee event.*



*Our amazing billing team ready to greet our Members at our 2022 Annual Meeting!*



*Kingfisher Chamber of Commerce Director Shauna Rupp [right] and Chamber employee Laura Callaham posing for a picture with Governor Kevin Stitt during his visit at Pioneer Headquarters.*

**We Hope you have a  
Happy New Year!**



## 25+ YEARS ANNIVERSARIES

### **Wendell & Servrina Prim** - Kingfisher

Celebrated their 30th Wedding Anniversary October 3rd. They have three children and three grandchildren.

### **Shirley & Lloyd Dinse** - Apache

Celebrated their 52nd Wedding Anniversary November 13th. They have five children and many grandchildren and great-grandchildren.

### **Al & Bev Swaney** - Thomas

Celebrated their 45th Wedding Anniversary October 22nd. They have three children and nine grandchildren.

### **Shawn & DeAnna Lewis** - Blanchard

Celebrated their 38th Wedding Anniversary July 28th. They have one daughter and two granddaughters.

### **Elmo & LaVida Anderson** - Helena

Celebrated their 68th Wedding Anniversary November 13th. They have two children, five grandchildren, 12 great-grandchildren, and a great-great-grandchild.

### **Larry & Diane Lippoldt** - Okarche

Celebrated their 55th Wedding Anniversary September 2nd. They have three children, four grandchildren, a great-grandchild, and three step-grand-children.

### **Roger & Nancy Heap** - Frederick

Celebrated their 50th Wedding Anniversary August 19th. They have two children, six grandchildren, and a great-grandchild.

### **Robert & Barbara Swart** - Kingfisher

Celebrated their 65th Wedding Anniversary May 30th. They have five children, 13 grandchildren, and eight great-grandchildren.

### **Terry & Jan Erhardt** - Blanchard

Celebrated their 37th Wedding Anniversary October 19th. They have two children and two grandchildren.

### **Jeff & Kathy Anderson** - Blanchard

Celebrated their 45th Wedding Anniversary October 22nd. They have two children and three grandchildren.

### **Arlyn & Joy Moon** - Greenfield

Celebrated their 50th Wedding Anniversary March 11th. They have three daughters and seven grandchildren.

### **Mr. & Mrs. Danny Steen** - Blanchard

Celebrated their 50th Wedding Anniversary May 13th. They have a daughter and a son-in-law.

### **Edgar & Vada Goodman** - Mooreland

Will celebrate their 59th Wedding Anniversary December 15th. They have two sons, a daughter, two daughters-in-law, and a son-in-law.

### **Larry & Dianne Kannard** - Okeene

Celebrated their 55th Wedding Anniversary June 18th. They have two children, three grandchildren, and a great-grandchild.

**Happy Anniversary from all of us at Pioneer!**

#### **Want your Anniversary published?**

To have wedding anniversary announcements of 25 years or more, simply submit your anniversary information including town, wedding date, and number of children, grandchildren and great-grandchildren to GoPioneer Magazine at any of the following addresses:

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