

LAUNCH INTO THE NEXT FRONTIER OF MANUFACTURING

Welcome to the Cosmic Universe of data used to create your own unique new product ideas with Voyager!

The New Product Idea Development Pace of Manufacturing Must Match Technology TimeSM

In Order to Meet the Business and Especially Manufacturing Challenges of the Future, the Need for Speed is a Continuous, New Product Development Pace Necessary if Not Essential for Business Survival

AS A MANUFACTURING SOCIETY AND NATION, WE MUST GO BEYOND AN INDUSTRIAL REVOLUTION AND VISUALIZE A NEW MANUFACTURING EVOLUTION

Voyager's Secure and Sanitized AI Data Box (Cosmic InquirySM) Contains 200,000 Pieces of Product Ideas, Approaching 500,000 and Growing to its Totality (Universe) of Product Idea Pieces

AN INVITATION TO TOUR THE TYREX TECHNOLOGY FACILITIES AND DISCOVER...

THE FUTURE OF MANUFACTURING AS ENVISIONED BY TYREX

Scan the Voyager QR code or visit tyrexmg.com/voyager for access to the Tyrex Partnering Arrangement Flowchart by Research Development Stage along with each stage's functionality, more program information and our sign-up.

30 YEAR-OLD AUSTIN-BASED TECHNOLOGY MANUFACTURING GROUP

TECHNOLOGY TIMESM I & II

A Visit to the TyRex Technology Facility Features

A Tour of	Free Gifts
TyRex's New (8) Connecting Technology Entities with Creativity and Innovation	AI Aided Business Song
Mind THINKING SM New Box THINKING SM Center	3D Printed Dinosaur Egg(s)
Young Professional Entrepreneur Cubicles Area with its Business Intern Unique 3D Printed Products	\$100 Reimagining.org 3D Printing with Digital Community Business Volunteering "Thank You" Bag
TyRex's Voyager Program Center to Experience	Schedule a Tour and Join the Manufacturing Evolution
Our Knowledge and Information Library/Education	Row of Future Continuous

The Tribune

4th Quarter 2024

Profit, Purpose, Family AND CommunitySM



TYREX
GROUP, LTD.

Full page print advertisement for TyRex's AI programs as seen in the Austin Business Journal Nov. 25 Issue

TyRex Launches into AI's Brave New World

The following was featured in the Austin Business Journal Nov. 29 Edition. The below article has been edited to highlight Matt Ache's input into the discussion. For the full article, scan the QR code at the bottom of page 3.

The following Panel of Experts was organized by the Austin Business Journal in an effort to better understand how AI has changed — and will continue to impact — the business community in Austin. Participating in the panel were David Abendschein, CTO, Consero Global; Cristina Carl, founder and CEO, Ediphi; **Matt Ache, president, TyRex Group**; Seamus Jones, director, server technical marketing, Dell Technologies; and Matt Wursta, founder and CEO, Wursta. The discussion was moderated by Jay Boisseau, Ph.D., CEO and co-founder, Vizias; director and founder, Austin AI Alliance; executive director and founder, Austin Forum on Technology & Society.

Jay Boisseau: It's hard to believe it hasn't even been two years, and suddenly generative artificial intelligence — gen AI — is everywhere. What can businesses do now to catch up? As we know, it's not just ChatGPT anymore; we also have multiple large language models (LLMs) now. We have numerous image and audio-video programs. Can small companies use this effectively to grow their business? What should they do?

Matt Ache: Jay, to your question about small businesses in particular, I can say that in manufacturing, AI tools will favor smaller businesses with flexibility, entrepreneurial spirit and an understanding of the need for speed in all phases of manufacturing. The most effective way to utilize and experience AI in manufacturing is to have an open mind, and not have a departmentalized business structure. This means you need to include every employee and department, and make sure they are integrated into your manufacturing business design and development.

Boisseau: So drilling down on that a bit further, what are some of the best AI use cases to emerge thus far from the small business world?

Ache: I'll use our own example, if I may. TyRex is focused on combining additive manufacturing and 3D printing with AI. AI can be a game changer for manufacturing, honestly.

Boisseau: Some of you mentioned some highly personalized interactions with AI, which brings me to my next question. How can businesses be sure their data won't be misused when they import it into an AI model? So whether they're training an AI model — or using something like retrieval-augmented generation (RAG), for instance — how do you make sure private data is protected? What are the risks, and how do we mitigate them?

Ache: For our part, TyRex has searched the internet for nearly 200,000 product ideas and placed them into a safe, secure and sanitized AI data box that we call the Cosmic Inquiry. Essentially, it has security boundaries, and access to the data box is under our control.

Boisseau: How do you see AI changing the economy in Austin, and more broadly, Texas? Most of the core work seems to happen in the Bay Area. Is there room for Austin to be a leader in this technology? What would that take?

Want to know more?

Read Matt's response and continue the rest of the Q&A on page 3!

Coach's Corner

John Bosch, Jr.
Coach, Mentor and TyRex's Technology Visionary



I am so appreciative of the Tribune and its TEAM of Trevor Hendricks, Henry Shepard and Joel Coffman for making it so easy to say I am so proud of my TyRex Business Family of Technology Entities, Creative THINKING Associates and special nonprofit partner RecognizeGood (RecognizeGood.org). Being so evident in the Tribune, I'd like to give back some of my space for adding more articles, so I encourage you to read these features in a *Special* By DesignSM Business Family.

- 1.) **Page 1** – Matt Ache's AI Brave New World.
- 2.) **Page 4** – Three TyRex Family Celebrations.
- 3.) **Page 6** – TyRex Diamond Discipline Employees of the Month
- 4.) **Page 7** – Birthdays and Anniversaries, including Lisa Martin's 20 years, Kevin Alwell's 26 years and Jeff Walton's 25 years.
- 5.) **Page 3** – TyRex in the News, TyRex Featured in MTDCNC's The Gunn Show. Please watch the video featuring Andrew Cooper on TyRex and Joel Coffman on TyRex and RecognizeGood's cultural commitment to the community.
- 6.) **Page 5** – of course, there are always Dinosaur Museum features, but did you know about the many other display features in the TyRex Technology facilities? Look for the forthcoming virtual museum, featuring product ideas of the future, which haven't been discovered yet. The Future of Science and Technology along with Manufacturing is coming faster than you can iMindSM imagine.

Thanks for listening!

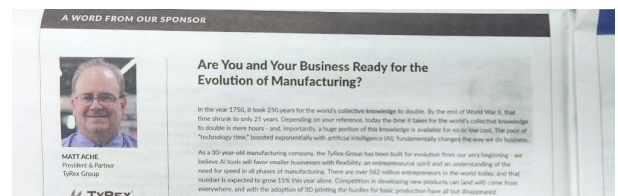
Coach and Mentor of Innovation and Creativity using
iMind THINKINGSM

AI in Manufacturing - TyRex Thought Leadership

In the year 1750, it took 250 years for the world's collective knowledge to double. By the end of World War II, that time shrank to only 25 years. Depending on your reference, today the time it takes for the world's collective knowledge to double is mere hours - and, importantly, a huge portion of this knowledge is available for no or low cost. The pace of "technology time," boosted exponentially with artificial intelligence (AI), fundamentally changes the way we do business.

As a 30-year-old manufacturing company, the TyRex Group has been built for evolution from our very beginning - we believe AI tools will favor smaller businesses with flexibility, an entrepreneurial spirit and an understanding of the need for speed in all phases of manufacturing. There are over 582 million entrepreneurs in the world today, and that number is expected to grow 15% this year alone. Competition in developing new products can (and will) come from everywhere, and with the adoption of 3D printing the hurdles for basic production have all but disappeared.

Adopting AI in manufacturing means dissolving traditional thinking and re-imagining traditional product development. At TyRex, we are embracing this evolution and adapting our manufacturing experience to help forward-thinking companies lean into the future. *Will you join us?*



Employee Milestones

Birthdays

October

- 3.....Leidymar Chirino (MGD)
- 4..... Le-Thu Ngo (MGD)
- 5.....Trevor Hendricks (TRX)
- 5..... Landry Kollodziej (ARL)
- 5.....Carlos Gomez (ARL)
- 22.....Matt Lovelace (ARC)
- 25 Elisa Delgado De Rodriguez (IRX)
- 29..... Cynthia Ferrell (MGD)

November

- 2..... Andrea Guzman (IRX)
- 3..... Alex Polizio (MGD)
- 7 Gus Rives (SRX)
- 9.....Yeimi Rivera (IRX)
- 11.....Monica Alvarado (MGD)
- 11..... Patrick Blackmon (ARL)
- 12.....Gloria Walls (SD)
- 14 George Ayad (TRX)
- 14 Tom Gram (TRX)
- 15 Christian Pustka (DLi)
- 16 Alicia Silvan (ARC)
- 22..... Michelle Estanga (MGD)
- 26 Andy Grimmer (IRX)
- 26 Francisco Bascuñán (TRX)
- 28 Tony Avila (TRX)
- 28 Veronica Hernandez (IRX)
- 30 Aura Jimenez (MGD)
- 30 Graysen Wall (SRX)
- 30 Phuong Nguyen (ARC)

December

- 2..... Daniela Palacios (MGD)
- 4..... Will Spencer (MGD)
- 7 Kevin Chen (WM3D)
- 9..... Amy Clausen (MGD)
- 9..... Danny Ross (IRX)
- 13..... Lucy Rivera (IRX)
- 14 Jason Rivera (TRX)
- 16 Zainab Hanoon (ARL)
- 26 Vicky Carreon (ARC)
- 28 Carmen Gomez (IRX)

Anniversaries

October

- 1 Year.....Tim Johnson (SD)
- 2 YearsKevin Chen (TRX)
- 20 Years..... Lisa Martin (TRX)

November

- 2 YearsGraysen Wall (TRX)
- 11 Years.....Miguel Barrera (DLi)
- 26 Years.....Kevin Alwell (TRX)

December

- 1 Year..... Ben Ford (TRX)
- 2 YearsLandry Kollodziej (ARL)
- 25 Years..... Jeff Walton (SRX)

Happy Birthday
Gus Rives!



Kevin Chen
Celebrates 2 years!



Happy Birthday
Andrea Guzman!



Miguel Barrera
Celebrates 11 years!



Happy Birthday
Amy Clausen!



Lisa Martin Celebrates
20 Years!



TyRex Kudos & Acknowledgments

TyRex's Diamond Discipline Employee of the Month Honorees



Community Citizenship

Alma Valadez Galvan

Megladon



Prosperity To Longevity

Alicia Silvan

Arctos



Imagination & Innovation

Graysen Wall

Woolly Mammoth 3D



Technology Advisors Group Facility Tour and AI Demonstration

The Technology Advisors Group (TAG) is a network of technologists, service providers and business leaders focused on integrating cutting-edge technologies into business. This quarter, over 20 members met at TyRex where they witnessed TyRex's Voyager program firsthand. The energetic group of professionals was also taken around the facility to see the TyRex Family's full suite of manufacturing capabilities.



TyRex Launches into AI's Brave New World

CONTINUED

Ache: We actually believe Austin — and Texas as a whole — can be leaders in this new era of manufacturing as well, by bringing these types of businesses and jobs back to the area. In fact, I will take it further and say that with the help of AI, I believe we can become leaders in manufacturing, even worldwide.

Boisseau: Texas lawmakers are discussing possible AI regulations, as are most other states. What's your view on how local, state and federal governments could reduce potential risk to IP and the spread of misinformation — or perhaps more importantly, disinformation? Can we ensure safety, without hindering innovation?

Ache: Agreed. Providing boundaries and ethical guidelines are a must, but laws and legislation should not put constraints on the creativity and innovation of AI minds.

Boisseau: Manufacturing is certainly an industry where we'd expect to continue to see technological advancements in

the world of AI — Matt, can you expand on this for us?

Ache: Our TyRex's Voyager software was created out of necessity, because a manufacturing business's product development pace must equal Technology TimeSM in order to stay competitive. This software helps create a constant stream of new product ideas that can be sourced, researched, developed and prototyped in a very time-efficient and cost-effective manner. At this time, we provide the new product initial search functions of this software for free to anyone who takes our two training courses. With this software and structure, we can reduce our customers' additive manufacturing product development time and cost by 60-80% or more. So, it's pretty exciting.

Scan here for the full edition of the Austin Business Journal Nov 29th Edition featuring the launch of TyRex's Voyager Program.



TyRex in the News ... A LOT!

TyRex was busy, busy, busy making news as 2024 wound down to a close - featured on a huge national manufacturing show, lead sponsor of Austin Business Journal's "AI Takeover" issue, and finalist for an innovation award. All in the span of a few weeks!

TyRex Featured By MTDCNC's "The Gunn Show"

When major manufacturing channel MTDCNC sent one of its well-known industry leaders to join Austin's local manufacturing conference, TyRex was singled out as a "manufacturer to know" while the show was in town. With nearly 500,000 followers and more than 4 million monthly views on YouTube, MTDCNC has made a name for itself in the manufacturing world delivering interesting industry content including interviews, facility tours and special events.

Presenter, journalist and podcast host Tony Gunn of MTDCNC visited to film an extended facility tour and interview with our own Andrew Cooper and Joel Coffman. Focusing on cable harnessing, 3D printing and the innovative culture at TyRex, Tony and his team gave us a lot of respect both for our manufacturing leadership and for our caring culture as well!



Engineered Solutions with Andrew



Community Citizenship with Joel

TyRex at Austin Inno Fire Awards 2024

The Austin Inno Fire Award was formed by the Austin Business Journals to celebrate those companies that found ways to build momentum throughout the past year. TyRex was proud to be named a finalist in the AI, software and robotics category! We didn't win, but got a great view of the Texas Capitol building.



Say THANKSgiving



Saying *Thank You* is a huge part of the TyRex Family culture. Every year around Thanksgiving, the TyRex Family shares a meal while exchanging handwritten Thank You notes with one another. This year after a very successful food donation drive, Say THANKSgiving ended with a two-winner raffle draw for credit to the RecognizeGood store.



Watch our special video message!

Dinoween

At the height of the spooky season, the TyRex Family celebrated with its annual Dinoween event where everyone got creative and introduced unique costumes, pumpkin decorations and 3D printed items. Thanks to all of this year's contest participants and special guest judges for joining in on the fun!



Costume Contest Winners
 (1st) Khloe Chourio,
 (2nd) Leslie Leuenhagen,
 (3rd) Francisco Bascuñán



Pumpkin Contest Winners
 (1st) Armie Ortiz,
 (2nd) Jason Dunbar,
 (3rd) Alicia Silvan



3D Printed Product Contest Winners
 (1st) Denny Hean,
 (2nd) Grayson Wall,
 (3rd) Trevor Hendricks



Like our Facebook Album!

Holiday Open House



The TyRex Family and their personal family members celebrated the Holidays together in our facility with AI music and technology demos, 3D printed novelty items, Dinosaur exhibits, goodies for the children, door prizes, cash bonuses, sweet eats and more!



Like our Facebook Album!

TyRex Family Dinosaur Museum

Authentic Artifacts and Unique Products this Quarter

Ammonoid Couple



Ammonoids were ancient marine mollusks that thrived in Earth's oceans for over 300 million years, from the (Devonian period) 419 mya to (late Cretaceous period) 66 mya. These cephalopods ranged dramatically in size from under an inch to over 6 feet in diameter.

OCTOBER

3D Printed Postal Print Card



Send a personal message or a simple greeting embedded in 3D printing technology to anyone, anywhere with 3D printed postcards! 3D printed design on the front, message and stamping on the back. This product has been tested and is used in the real world (patent pending.)

Artillery Fuze



This artillery fuze is likely from the WWI era, possibly belonging to a European nation. Artillery fuzes are designed to have different shapes, sizes and contents to accommodate specialized functions. This artifact can be seen in the military memorabilia exhibit.

NOVEMBER

3D Printed Portrait



They say a picture is worth a thousand words. Why not add one more by bringing that special portrait to life with 3D printing! People will say "Wow" when they witness up to 36 different colors seamlessly blend on the same layer recreating cherished photos, masterworks of art and more.

Carcharodontosaurus Tooth



The Carcharodontosaurus, meaning shark toothed lizard gets its name from a genus of sharks (carcharodon) that had sharp, serrated teeth. Much of the remains belonging to this extinct species were lost during an allied bombing raid on Munich during WWII. This tooth can be seen on display in the front lobby.

DECEMBER

3D Printed Spinner Top



3D printed spinner tops are ergonomic, cost effective and a brilliant take on a beloved toy of the past! Lightweight for increased spinning speed and complete customization from product color to editable text make this product an instant branding win.

DinoDo\$\$ar Reward Programs For TyRex Family Members

TyRex Family Members Only

Looking to earn DinoDo\$\$ars? TyRex has released several DinoDo\$\$ar Reward Programs for our TyRex Family Members to participate in! Log into the TyRex Family Album (TFA) to learn more and check for the latest programs!

GET INVOLVED ON THE TFA

Connect with fellow TyRex Family members, join in on the discussion and contribute to all the great content being posted on the TyRex Family Album now!



Visit the TFA now for more info on available DinoDo\$\$ar Reward Programs and to catch up on the latest TyRex happenings!

TyRex 3D Printing Courses & Challenges with Ted Neil

Now Available to our Austin Area Community Members

TyRex 3D Printing Training Courses are here and are available to all TyRex employees and their personal family members, and now our Austin area Community! Whether you're interested in advancing your 3D printing knowledge, want to 3D print novelty items, or want to make 3D printed cookies and tortilla chips, get in touch with John Stiles (jstiles@tyrexmfg.com), Ted Neil (tneil@tyrexmfg.com) or scan the QR code to learn more and sign up! TyRex 3D Printing Training and Challenges come with TyRex's Dino Do\$\$ars Incentive Bonuses.



Voyager Training with Russell Turner

Now Available to All TyRex Business Family Members

Interested in exploring the power of AI? Want to learn more about AM and 3D printing? Looking for a product idea? Accomplish all three with TyRex's Cosmic InquirySM program! Guided 'Voyager' training is now available for all TyRex Business Family Members. Contact Russell Turner (rtturner@saberdata.com.com) or John Stiles (jstiles@tyrexmfg.com) to learn more and sign up!

TYREX[®]

GROUP, LTD.

Family of Technology Companies



Arctos



Austin
Reliability Labs



Digital Light
Innovations



iRex



Megladon



Saber Data
Cat



SabeRex
(tiger)



TekRex



Woolly
Mammoth
3D

Nonprofit



RecognizeGood[®]
Illuminating GOOD
in Our Community

Associated Entities



RF
Scientific



Right Stuff
Marketplace



STG
4 Fronts



TyRex
Learning
Foundation



tri/REX

Special By Design[®]

This newsletter is edited by Trevor Hendricks, Henry Shepard and Joel Coffman.

If you have news or something you would like to include in this newsletter, please send an email to news@tyrexmfg.com.

BENEFITS CONTACT INFORMATION FOR TYREX FAMILY MEMBERS

Engage PEO - Payroll

engagepeo.com • 1-(888) 780-8807

United Healthcare - Medical

1-(877) 797-8812 • myuhc.com • group #1459157

Inspira Financial - HSA / FSA Accounts

(844) 729-3539 • mybenefits.inspirafinancial.com

MetLife Life / Disability Insurance

1-800-438-6388 (GET-MET8) • mybenefits.metlife.com
• group #Engage PEO 227795

MetLife - Hospitalization / Accident

1-800-438-6388 (GET-MET8) • mybenefits.metlife.com
• group #Engage PEO 227795

Aetna - Dental

1-(877) 238-6200 • aetnadentaloffers.com
• group #326-484-19-001

Aetna - Vision

1-(877) 973-3238 • aetnavision.com.com • group #1030009

Slavic 401K - Retirement Plan

(800) 356-3009 • slavic401k.com

Internal Support

John Stiles • (757) 508-2925 | Kevin Alwell • (512) 689-8695

Human Resources

Insurance Programs