



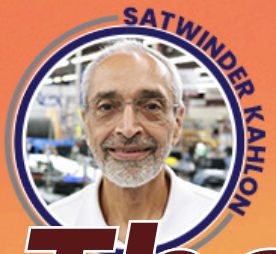
MATT ACHE



ED LATSON

# EXPERT ROUNDTABLE

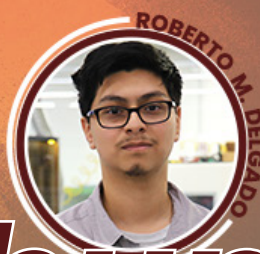
## Reimagining American Manufacturing



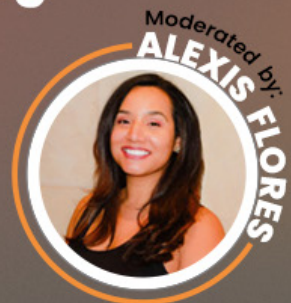
SATWINDER KAHLON



AMIR HUSAIN



ROBERTO M. DELGADO



Moderated by:  
ALEXIS FLORES

# The Tribune

3<sup>rd</sup> Quarter 2025

Profit, Purpose, Family AND Community<sup>SM</sup>  
For 30 Years and Counting!



**TYREX**<sup>®</sup>  
GROUP, LTD.

## TyRex Featured Alongside Fellow Industry Experts in Austin Business Journal Roundtable

As the future of manufacturing takes shape, leaders across the country are rethinking how to stay competitive in a fast-changing global market. To explore what's ahead — and what it will take to succeed — the **Austin Business Journal** convened a panel of innovators, industry leaders and emerging talent. Panelists included **Amir Husain**, serial technology entrepreneur and author of the upcoming book *The Cybernetic Society*; **Ed Latson**, CEO of Opportunity Austin; **Satwinder Kahlon**, President of Saber Data and co-leader of TyRex's AI Technologies TEAM; **Matt Ache**, President of the TyRex Technology Business Family; and **Roberto Macedo-Delgado**, a senior at Texas State University and summer intern. Together, they offered an inside look at the evolving landscape, from AI and workforce shifts to new opportunities for U.S.-based production. The conversation was moderated by **Alexis Flores**, Director of Workforce Development at the Austin Regional Manufacturers Association.

*The Tribune team has compiled key highlight moments below. For the full roundtable discussion, scan the QR code on this page.*

**Alexis: Amir, what is your vision for the future of U.S. manufacturing over the next five to 10 years? What do you see as the legacy being built and the work being done?**

**Amir:** The three biggest challenges plaguing U.S. manufacturing are labor, cost, and conversion of innovation. First, there's the shortage of labor and expertise. This became very clear with the new semiconductor plants brought to the U.S. in partnership with the Taiwanese. Every report you read about those projects says

the labor trading wasn't up to par, and that's a major issue for advanced, high-margin manufacturing.

The second issue is around the cost of production. I check this every quarter, and the last time I did, I read that the average amount of money that the French spend to build a mile of highway is half of what we spend. In America, everything has become extremely expensive to build, and this reflects in our defense manufacturing base, where we're locked into building multibillion-dollar assets. It applies to infrastructure; it applies to pretty much everything.

Third, is that the technologies we've developed in universities and small companies haven't made their way to the fore. This is one of America's greatest advantages, yet it's not translating into the next generation of dominant American products, platforms, or systems the world wants. Part of that is global competition, but part of it is that we've gotten worse at converting that pipeline into a successful product.

**Alexis: Matt, you're at the forefront in shaping the future of manufacturing. From your perspective, what does the bigger picture look like for U.S. manufacturing moving forward?**

### Want to know more?

Continue on to page 3 for more discussion highlights or scan the QR code for the full article.



SCAN

# Coach's Corner

John Bosch, Jr.

Coach, Mentor and TyRex's Technology Visionary



## Reimagining American Manufacturing.

Manufacturing is transitioning from evolutionary to revolutionary. It is happening sooner than you might think. Best estimates place the transition somewhere between six (6) months and two (2) years. **Add your date to our Countdown Clock by scanning the QR code on this page!** Some of the transition elements to look for: the average lifecycle of product lifecycles will be reduced to three (3) to five (5) years, new product introductions will be introduced in days or a couple of weeks, not years, and the actual manufacturing will become much more automated and virtual. Eliminating most of the supply chain.

How does the TyRex Technology Family of Entities, Associates and its RecognizeGood.org non-profit partner fit into the future of manufacturing?

**Answer:** By combining Artificial Intelligence (AI) and Additive Manufacturing (AM) with AI-aided software (22 software programs and growing) created by the TyRex Advanced Technology TEAM. Over the past three (3) years, TyRex Associates have sourced from the internet using special T<sup>3</sup>EAM software, created over 453,000 new unique 3D printable manufacturing product ideas spanning across 346 NAICS six (6) digit codes. I know it's hard to put your mind around this number, but they are real, but note that not all new, unique product ideas have a viable market analysis or positive business analytics. Side note, T<sup>3</sup>EAM have products, AI-aided software to help identify these market challenges.

The next really substantial features are:

- 1) Individual new, unique product ideas can be advanced five (5) levels to the "go-no-go" decision point in days, typically in less than a week.
- 2) Not only are the new, unique product ideas research and development time efficient, but they are also extremely cost-effective and extremely competitive with offshore low-priced labor countries.
- 3) **Absolutely no need for tariffs.**

**Here is your invitation** to join in the CHALLENGE to combine the Future of Technology (FOT)

with American Patriotism and move U.S. manufacturing back to a world-dominant and technology leadership position, and bring pride back into our U.S. manufacturing.

Now let's talk about the future leadership of manufacturing. For the last three years, TyRex has hosted an **Intern-ivation**<sup>SM</sup> program for technology interns (a number varying between 34 and 44, all paid interns). RecognizeGood.org provided them with 3D printing, engineering and design training to allow them to use their creative minds.

This summer's advanced engineering group (five individuals between June 7 and August 12) created sixty-four (64) new, real-business products from our **Cosmic Inquiry Data Box**<sup>SM</sup>, most in 24 engineering design hours or less. We are currently working to place these (mostly fiber optic) products in the marketplace.

Take a look at the page on summer interns and the page covering our **TyRex Innovator of the Month awards**.

In closing, I have two comments. First, the U.S. manufacturing industry has all the technologies to regain its position in world assembly and product production. Second, our manufacturing leadership of the future, the students of today, are ready right now to become the leaders of tomorrow's manufacturing landscape. **So Let's GO!**

*Thanks for Listening! And join the Manufacturing Revolution today!*



Scan here to add your **Countdown Clock** date!

*John Bosch Jr.*

Expanding Innovation and Creativity  
by using iMind THINKING<sup>SM</sup>



## Reimagining American Manufacturing Expert Roundtable Discussion Continued

**Matt:** Looking at the future of manufacturing, we've done some deep thinking around what we call "Technology Time," and we've written a number of white papers on it that really address the accelerating speed of technological change. Today, technology is doubling the world's knowledge in about an hour and a half. In five years, it'll be less than an hour.

Faster innovation means shorter product life cycles. So how do businesses — and manufacturing in particular — keep up with that kind of rapid evolution?

At TyRex, we already have a solution! By using our in-house AI-aided technologies, we have captured the Near Totality or the Universe of New, Unique Product Ideas from the internet. Currently we have found and secured over 450,000 FOM Product Ideas Securely Stored in our Cosmic Inquiry Data Box<sup>SM</sup>. Each Product is New and Unique, sorted by NAICS code, and 3D Printable. Each has its Own Product ID and Initial Search description. We have confirmed we can go from Concept to Prototype, and create New, Unique 3D Printed Products in Days. We are looking to create partnerships with manufacturing companies to help them create their "conveyor belt" of new products. We also identify products internally and put them on our Ascending Virtual Bulletin Board along with our Schedule of amazing Summer Interns' Engineered New Product Ideas with 3D Printed Prototypes. We also surround these nearing 500,000 plus New, Unique Product Ideas with 20+ Connecting and Cross-connecting TyRex Technologies TEAM AI-Aided Software Programs that Create a Virtual Picket Fence of IP Protection from Non-invited Foreign Entities.

**Alexis: Ed, let's zoom in a bit. What are you seeing locally in Central Texas and Austin when it comes to the future of manufacturing? What trends or dynamics stand out to you?**

**Ed:** I think this is a pivotal moment — not just for the country, but globally. There's been a true recognition that, to be a safe and secure nation, we have to be resilient in a few key areas. That includes owning our production capacity in pharmaceuticals, technology, and defense. I think we're going to see much more concentrated investment in those sectors over the next five years.

Austin is incredibly well positioned to lead in this transformation. Between 2018 and 2023, we were the top-performing economy in the country. We led in job creation, population growth, and GDP growth. A lot of that momentum came from manufacturing.

**ABJ: Satwinder, I'm curious to hear your thoughts on Austin's contribution to the future of manufacturing. Where do you think we stand over the next five to 10 years?**

**Satwinder:** I have seen the evolution through the different technologies that have come out of Austin. I've watched the changes come through — whether that's the work coming out of research labs, or big decisions like why Google or Amazon came to Austin.

Those companies helped drive that evolution. And here at TyRex, which was founded 30 years ago, we've been part of that same journey. The technologies we're building now are looking toward where manufacturing is going, not only in

Austin but across the U.S. and worldwide. Still, our main focus is U.S. manufacturing. We're building solutions that are meant to help manufacturers across the country and reduce supply chain issues.

**Alexis: That brings up an important point — how will we know if we're on the right track? What signs or metrics show that Austin is keeping pace with advancements in manufacturing and technology?**

**Satwinder:** For us, every technology we're building goes through a validation process. Whether it's a product concept or a new system, we take it through the steps to confirm that it's viable and can be implemented.

**Matt:** It really comes down to measurement. With a lot of the new systems we're using at TyRex, we can track how quickly we're doing things and where we can improve.

As I mentioned before, one of the tools we've created is something we call the Cosmic Inquiry Data Box<sup>SM</sup>. It helps us streamline and expedite the creation of new product ideas. In the past, that might have been a roundtable of people brainstorming. Now, we can accelerate the front end of engineering by using AI software tools to pull those ideas together more quickly reducing the engineering time to create new products by 60 to 80%.

We're reaching a point where we can produce new product ideas in the U.S. at a much more competitive cost than low priced labor countries, where we won't need tariffs to compete.

Our goal is to be a leader in bringing manufacturing back to the U.S. and for the U.S. to regain the title of No. 1 manufacturing nation in the world. With the new technology, the speed of technology and what we can now do internally, I believe, with these TyRex tools, we can help our partners get there.

**Alexis: Satwinder, when it comes to manufacturing, what challenges or trends are standing out most right now?**

**Satwinder:** At TyRex, one of the big challenges is the manufacturing supply chain — the need for so many components and parts. While supply chain issues will always exist to some degree, we're trying to develop product ideas that can move forward with minimal supply chain disruptions.

**Alexis: Matt, what's on the drawing board to address these challenges and shape the future of manufacturing?**

**Matt:** At TyRex, we're supporting a movement to bring manufacturing back to the United States.

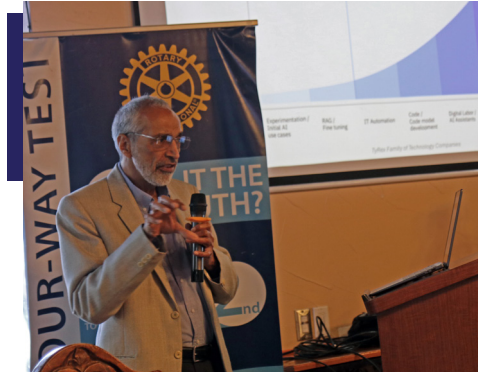
TyRex is using an AI, additive manufacturing, and 3D printing connecting concept that eliminates the majority of the supply chain. We are prepared for the U.S. manufacturing radical change with the aid of advancing TyRex AI-aided technologies to its virtual and additive manufacturing future programs. With TyRex's manufacturing capabilities related to global supply chain disruptions, the TyRex Technology TEAM's leadership in the **Spirit of American Manufacturing (S.A.M.)** addresses this concern as well.



# In Other News...

## TyRex Joins the Austin AI Alliance

This quarter, the TyRex Family expanded its presence in both the AI space and the local Austin community by joining the Austin AI Alliance. As a member, the TyRex Group will join fellow industry experts in local meetings and events that aim to advance the understanding, capabilities usage, and positive impacts of AI.



Satwinder delivers an AI presentation to West Austin Rotary before representing TyRex at its first Austin AI Alliance meeting.



Learn more about the Austin AI Alliance!

## TyRex Opens its Doors for a Summer of Student Tours

This quarter, TyRex kept its production floors lively as it welcomed 5 student groups from local NPO programs and school-sponsored clubs; each having interests in manufacturing and/or STEM.

### Breakthrough CTX



### VHS Robotics Club (Viperbots) - Stryke



### Skillpoint Alliance



### Westlake Robotics Club

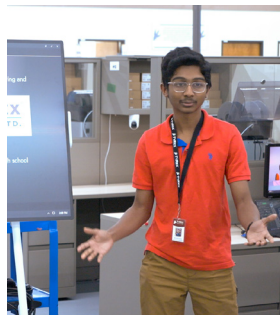


### VHS Robotics Club (Viperbots) - Ouroboros 4545



## TyRex Bids Summer Interns a Fond Farewell

Readers of the previous two TyRex Tribune editions may have noticed that the interns working at TyRex are creative, bright and have an eagerness to iterate! We enjoyed working with this year's class of interns and were impressed with their engineering projects, from producing fun gizmos that demonstrate 3D printing's range of usefulness to making complete products that are making a difference in our world today.



# TyRex Family Dinosaur Museum

## Authentic Artifact of the Month

### JULY

#### Odontoceti Vertebrae

Odontoceti refers to a family of toothed whales, including dolphins, beaked whales, killer whales and more. Vertebrae specimen like this have been discovered in various places, dating back as far as 23 million years ago.



### AUGUST

#### 20<sup>th</sup> Century Free Meal Flyer

During major conflicts (World Wars I & II) churches and community groups often provided social services to troops and families. This coupon originated from Glasgow, UK but now resides in TyRex's Military Memorabilia exhibit.



### SEPTEMBER

#### Shell Fossil

Shell fossils are preserved remains or impressions of shelled marine organisms. This specimen is likely a brachiopod or bivalve (clam/scallop) fossil due to its symmetrical appearance.



## TyRex Programs

### 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.



SIGN UP HERE



# TyRex's Diamond Discipline Employee of the Month and Innovator of the Month Honorees

July



**Professionalism**

**Rosie Gurung**

**TyRex**



**Innovator of the Month**

**Ved Matai**

**TyRex Interns**



August



**Entrepreneurship at Every Position**

**Garrett Rohan**

**Woolly Mammoth 3D**



**Innovators of the Month**

**Elizabeth McRae & Taran Siruvuri**

**TyRex Interns**



September



**Employee Well-Being**

**Aime Ortiz**

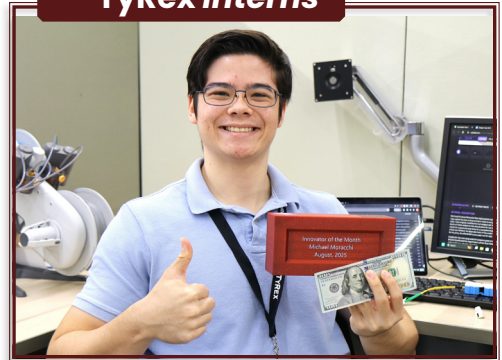
**Megladon**



**Innovator of the Month**

**Michael Moracchi**

**TyRex Interns**



# Employee Milestones

## Birthdays

### July

- 1..... Michael Potter (ARL)
- 5..... Kelly McGill (IRX)
- 14..... Zachary Woods (IRX)
- 21..... John Bosch Jr. (TRX)

### August

- 3..... Drew Donnelly (TRX)
- 3..... Kevin Alwell (TRX)
- 3..... Olga Riano (IRX)
- 9..... Nabila Carrillo (ARC)
- 10..... Russell Turner (SD)
- 15..... Nate De La Cruz (SRX)
- 18..... Tim Johnson (SD)
- 24..... Yalimar Estanga-Chourio (IRX)
- 25..... Van Nguyen (ARC)
- 29..... Henry Shepard (TRX)

### September

- 1..... Elena Duran (IRX)
- 5..... April Gurney (MGD)
- 12..... Nathan Bosch (TKRX)
- 13..... Andrew Ford (TRX)
- 14..... John Stiles (TRX)
- 27..... Andrew Cooper (TRX)
- 27..... Haydee Magali Camacho (IRX)

*Happy Birthday!*

**Nabila Carrillo**



**Kevin Alwell**



## Anniversaries

### July

- 1 Year..... Amy Clausen (MGD)
- 1 Year..... Wahidul Polash (WM3D)
- 20 Years..... Maria Moreno (IRX)

### August

- 1 Year..... Garrett Rohan (WM3D)
- 3 Years..... John Stiles (TRX)
- 3 Years..... Santiago Ramirez (IRX)
- 4 Years..... Andy Grimmer (IRX)
- 5 Years..... Matt Lovelace (ARC)
- 22 Years..... April Gurney (MGD)
- 28 Years..... Maria Jaimez (IRX)

### September

- 1 Year..... Matthew Clark (MGD)
- 3 Years..... Patrick Blackmon (ARL)
- 3 Years..... Tom Gram (TRX)
- 9 Years..... Nathan Bosch (TKRX)
- 11 Years..... Van Nguyen (ARC)
- 25 Years..... Cynthia Ferrell (MGD)

*Congratulations!*

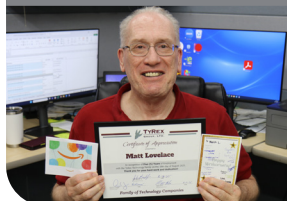
**John Stiles  
3 Years**



**Patrick Blackmon  
3 Years**



**Matt Lovelace  
5 Years**



**Cynthia Ferrell  
25 Years!**



# TYREX<sup>®</sup>

## GROUP, LTD.

### Family of Technology Companies



Arctos



Austin Reliability Labs



Digital Light Innovations



iRex



Megladon



Saber Data



SabeRex



TekRex



Woolly Mammoth 3D

## Nonprofit



**RecognizeGood<sup>®</sup>**  
Illuminating GOOD  
in Our Community

## Associated Entities



RF Scientific



Right Stuff Marketplace



STG 4 Fronts



TyRex Learning Foundation



tri/REX

## Special By Design<sup>®</sup>

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](mailto:news@tyrexmfg.com).

### BENEFITS CONTACT INFORMATION FOR TYREX FAMILY MEMBERS

#### Engage PEO - Payroll

[engagepeo.com](http://engagepeo.com) • 1-(888) 780-8807

#### United Healthcare - Medical

1-(877) 797-8812 • [myuhc.com](http://myuhc.com) • group #1459157

#### Inspira Financial - HSA / FSA Accounts

(844) 729-3539 • [mybenefits.inspirafinancial.com](http://mybenefits.inspirafinancial.com)

#### MetLife Life / Disability Insurance

1-800-438-6388 (GET-MET8) • [mybenefits.metlife.com](http://mybenefits.metlife.com)  
• group #Engage PEO 227795

#### MetLife - Hospitalization / Accident

1-800-438-6388 (GET-MET8) • [mybenefits.metlife.com](http://mybenefits.metlife.com)  
• group #Engage PEO 227795

#### Aetna - Dental

1-(877) 238-6200 • [aetnadentaloffers.com](http://aetnadentaloffers.com)  
• group #326-484-19-001

#### Aetna - Vision

1-(877) 973-3238 • [aetnavision.com.com](http://aetnavision.com.com) • group #1030009

#### Slavic 401K - Retirement Plan

(800) 356-3009 • [slavic401k.com](http://slavic401k.com)

#### Internal Support

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

Human Resources

Insurance Programs