



December 2020

Greetings and Happy Holidays to everyone!

At this time last year, very few of us had any idea about how 2020 would unfold. We were excited because 2019 was great for us and ended on a high note. So, the start of 2020 was good; we were working on projects, had many others in discussion, and had some funding interest. Luck was with us as we closed on a nice chunk of funding on a Friday in March. Sure enough, all of the stay at home orders came out the very next Monday because of the pandemic. We are a small team, so moving to work remotely did not slow us down. We actually became more productive as people had extra time to work during what would have been their commute. And, of course, many of us worked in our PJs and may have skipped a shower or two. We continued (and continue) to hold a daily standup, but it just moved to Zoom, as did our other meetings.

Our customer base has remained strong. Although, we did see a slight slow down over the summer months. There was a sense of uncertainty for some clients as the impact of COVID-19 on their revenue became apparent. Luckily, most of the problems we work on are related to optimizing operations and saving the company money. At a time when revenue is affected, saving money becomes even more critical. Our customers saw cost savings from our Virtual MemComputing Machine adding up to \$10s of millions annually. For this and other reasons, activity picked back up in September and has grown for us every month since. So, we are excited to enter 2021 on an upward trend.

Transportation Logistics was the first market that began adopting our technology, starting in 2018. It continues to be a strong market for us. We continue to touch all transportation areas; auto, trucking, railroads, shipping, and aerospace. In 2019, we participated in a startup pitch to the Oil & Gas industry and immediately drew a new market to our technology. We are dealing with applications in the exploration, extraction, refining, and transportation of petroleum products. In 2020, we received our first SBIR grant from the USAF around computations faced by satellites. In fact, we have recently been awarded a second grant from the USAF. In 2021, we will work on a much-expanded project for satellites designed to get information to the warfighter sooner. We are now applying for potential projects with NASA, the Navy, and more for the Air Force. There are enormous synergies for us in both the commercial and military spaces.

2021 will undoubtedly be busy for us, but not so busy that we can't take on new customers. We'll be growing our team to meet the demands; the more, the merrier. And there isn't a better time to be thinking merry thoughts. (Nice segue, huh?) From everyone here at MemComputing, we wish you and your family a happy and healthy holiday season and a prosperous New Year!

Here's some new information and a quick recap of the year that was;

[Visit our Website](#)

Recent News

Feynman Prize Awardee



Co-founder of MemComputing, Dr. Massimiliano Di Ventra, is the winner of the Foresight Institute's 2020 Feynman Prize for Theory in Nanotechnology. Established in 1993 and named in honor of pioneer physicist Richard Feynman, this prestigious prize honors researchers whose recent work has most advanced the achievement of Feynman's goal for nanotechnology: the construction of atomically-precise products through the use of productive nanosystems. Read the full press release [here](#).

We are so proud of this future Nobel Prize winner!!!! ;-)

Finalists



We are thrilled to be 1 of only 10 companies selected by the University of California as a finalist for its 2021 Startup Innovation Challenge! We'll be pitching our technology at the Global Cooperate Venture Digital Forum in late January. This will be yet another opportunity to showcase MemComputing to venture capitalists. We're hoping that they bring their checkbooks! More information on this honor can be found [here](#).

2021 Sneak Peek

Our technology will have many advancements in the coming year. As our cloud-based Virtual MemComputing Platform approaches its graduation from Beta testing to commercial release, dynamic features are being added. 2021 will see the release of:

- Continuous Variable Support
- AI-based parameter prediction
- Non-linear and Quadratic Programming
- Max-SAT and QUBO problem solvers
- A significantly enhanced UI and API

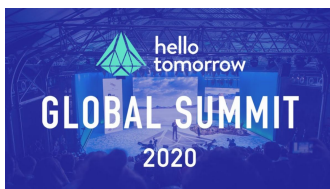
- Multi-Cloud support

2021 will also see the release of the Virtual MemComputing Machine as a library accessible via a Software Development Kit (SDK) leveraging the same features of the cloud-based solution, but which runs on our customer's own CPU and GPU hardware. Based on customer demand, we expect to release the library for a variety of ARM processors as well, for edge computing.

While we really need to raise a Series A in order to build out our first chips, customers with real-time programming needs are getting anxious. We've been commissioned to run some feasibility studies on how a MemCPU® Chip will perform on different problem sets. While our VMM brings compute times down from hours and days to minutes and seconds, a MemCPU Chip will solve problems in microseconds. We see huge opportunities for autonomous vehicles (autos, drones, satellites), driver and pilot assisted vehicles (autos, planes, ships), and other applications directed towards 5G communications for cellular base stations and mobile devices.

Our technology is indeed groundbreaking and we've only scratched the surface.

Notable MemComputing Sightings 2020



Hello Tomorrow Finalists

MemComputing is proud to have been featured as a finalist in the 'Advanced Computing & AI' category at the Hello Tomorrow Global Summit. It was a great opportunity to showcase MemComputing to deep tech professionals and investors.

Super Computing Conference

For the second consecutive year, MemComputing attended and exhibited at the Super Computing Conference. We were able to tune in to very interesting presentations and keynotes, while also networking with industry professionals.



CEO of the Year Finalist

Congratulations to our CEO John Beane for being selected as a Finalist for San Diego Business Journal's CEO of the Year Award!

Falling Walls Finalist

MemComputing was selected as a finalist for the Falling Walls Breakthrough of the Year award in the science start-up category! Click on the title to view our presentation.



SpaceCom Conference

MemComputing exhibited at SpaceCom 2020, the Global Commercial Space Conference and Exposition. Great opportunity to connect with experts in this industry and to continue exploring the applications of MemComputing in space!

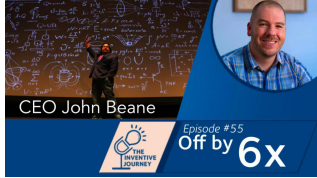
Joint Military Pitch Day

We were fortunate to be able to participate and pitch at this year's Joint Military Pitch Day. This event allowed us to showcase our technology to investors, the military, DoD, and prime defense contractors.



Inventive Journey Podcast

Our CEO John Beane discussed both his entrepreneurial career and the rise of MemComputing in the Inventive Journey Podcast.



Catalyst Accelerator

MemComputing was selected to pitch at the first ever Catalyst Accelerator Tech Collision event this summer to government and industry tech scouts



Cool Companies

We are extremely proud to have been selected as one of San Diego's top-performing startups, or "Cool Companies" for the third time by [Connect - San Diego](#)!

Geospatial Frontier Conference

Our CEO, John Beane discussed the unique applications of our technology in space during this year's Geospatial Frontier Conference.



Quantum Zeitgeist Interview

John Beane discusses MemComputing and its comparisons to quantum computing with Una Wang from Quantum Zeitgeist.

2020 Partnerships

Many of our clients come to us with mission-critical, proprietary computational problems. As a result, they prefer that we don't publicize our relationship or the problems we work on. This is not ideal for a startup that is trying to build credibility and show traction. However, it motivates us to blow their minds with what we do, thus compelling them to join the growing list of public customers. Here are some minds that we are blowing:



Chevron

We are very proud to have partnered with Chevron's Technology Ventures Catalyst Program, who is funding a series of Proof of Concept projects to evaluate our compute performance against problem sets specific to the Oil & Gas Industry.



ENEOS

MemComputing successfully completed a Proof of Concept on a currently intractable problem in the O&G industry for ENEOS.



AFWERX

AFWERX is supporting the work we are doing with the USAF, which includes multiple SBIR projects.

ArcelorMittal

MemComputing is proud to be working with ArcelorMittal, a leading

MemComputing at Upcoming Events



As a result of being selected as a finalist in the 2021 UC Startup Innovation Challenge, MemComputing will be pitching at the Global Corporate Venturing Summit January 27th.

Keep In Touch

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- Don't forget to periodically check our website <http://memcpu.com>. We are constantly working to improve it.
- Finally, if you have any comments or questions you'd like to share; you can always email us at info@memcpu.com.

