Participant 10 and TE Study - Cleaned

Participant 10 0:00
Sure, yeah. So I'm practicing token engineering. Now. I have a company that offers token engineering services based out of Canada called $name$. My background is in $computer science$ and I did my undergraduate degree from 2011 to 2016. During that time, actually in 2011, I became familiar with this concept of permissionless markets. This knows like the $name$ or some people call them dark net markets. And I just found that fascinating this concept of sort of breaking through all the constraints of, of society and being able to create permissionless markets, and I was fascinated by the technology that was enabling that and that's what led me to looking at $Bitcoin$. Now, it took me a few years to kind of get my head around what was going on there but in around 2012 2013, I came back to look at $Bitcoin$ and was fascinated that the price had changed so much. So I started thinking about it as like an investment vehicle and a financial instrument. And since I was studying computer science at the time, I started really leaning into statistics and data science and modeling. Because I could see it being applied to this new type of finance that was emerging. So while I was studying my undergrad in computer science, I got to look at Bitcoin emerging in the early days as the sort of case study of something that we could apply data science to and financial modeling. And I started to lean more and more into that I started making things like automated trading systems. And it motivated me to do a master's degree in data science. And during that time, around 2017/18/19 I came across the articles from $ name$ and the writing of $namet$ on bonding curves and $Ostrom's$ principles for DAOs. And I found these really like mind blowing on this concept of applying engineering to this new field of economics, which is like a digital first, crypto economics

Nathalia Scherer 2:50
so

Participant 10 2:52
yeah, so that's so from them. I mean, it blew my mind to see that engineering practices could be applied to this new perspective of economics that's like digital native crypto native. And I started studying I came across the $name$ in its early days. I got involved and then I started enrolling in the courses being offered by the $name$. And I realized that with my skill set as a data scientist, I could sort of carve out a niche in the space and offer services to the industry as a way to continue practicing. And so I've been doing that since about January 2020. So about three, three and a half years now. I've been offering these token engineering services with a with a small team at name.

Nathalia Scherer 3:42
Thank you, Participant 10. And now we're gonna dive more into definitions. And I'm curious to hear how you would define token engineering. Right, so

Participant 10 4:04

I think the term token is really beautiful. It's a very general purpose concept. That represents a lot of technologies that we use in life. I think of tokens as a superset of a lot of other things. For example, money, money is the token. Concert tickets are tokens. equity shares in a company are tokens. Tokens are something that have symbolic value. They're like placeholders that represent something. And so in the case of money, they represent purchasing power. In the case of stock equity in a company they represent ownership. Distributed ownership of say a corporation. And you can also have a token like your passport is a token it's a symbolic representation of your nation that you belong to. So this concept of a token sort of generalizes a class of technologies which are symbolic representational technologies. And engineering is the is the practice of engineering which is, you know, engineering is well defined. I tend to borrow the way that $name$ describes it which is a three step process, which is design, model and validate. And usually engineering is the quantitative application of those three things, design, modeling and validating. So whenever you can get something into numbers and equations, and you can sort of verify through quantification. I think that's a natural application of engineering. But what's interesting in the field of token engineering is we see a lot of non quantitative applications as well. Like if you look at the $name$ it's probably about almost 50/50 on the quantification and numerical analysis, that kind of stuff but then also on the social on the social topology. So this general concept of tokens is very, like applicable in this world today where everything is digital, and we're all hyper connected. And we finally have like a crypto native money system, which is blockchain and cryptocurrency technology. Things like smart contracts on $Etherium$. So applying engineering to this token technology is just it's the perfect time now, because these blockchain systems are well developed and mature and offer like a substrate for designing new systems. So yeah, I think you can derive the definition of token engineering from from those two root words and then just put it into the context that it's emerging today because it's it's enabled by the technology that exists.

Nathalia Scherer 7:33
And I think you've already covered some of it in your answer but I'm curious if you would have anything to add about what TE is solving that other areas or not?

Participant 10 7:46
I think it's really interesting to compare token engineering the field of token engineering, from like an academic or an industrial perspective, with the field of economics. And I think that well, economics and finance and I think that token engineering How do I say this? It's like a contender to supersede a lot of traditional economics and finance. I think we can supplant these fields, you know, like, banking is about 500 years old. We've had modern banking for about 500 years. And it's been refined and developed and it's evolved. Over that time. But it's never been fully functional. The way that economies have existed in the landscape of modern banking over the last 500 years, first of all, it's been rooted in colonialism. And that's very much tied to what the modern banking system is and I don't think you can get away from that without having a space for a completely new system to emerge. And I think that's what Token Engineering offers. I think it offers economic and financial primitives that are completely different, completely alien to traditional banking, economics, and finance. Like the last few days, I've been really looking at automated market makers like $name$, $name$ and $name$ and the way that $name$ works,

it's very simple. It's a constant product formula, so x times y equals k and it just keeps that invariant constant. That's such a simple equation. And it works really, really well. But that was never implemented in traditional finance or banking. I think that if you look at the history of that constant product concept, I think it was sort of proposed in like the 60s, but was never implemented industrially until uniswap. You know, just five years ago or so. So it's really it's like we've discovered this natural way of creating a marketplace with the constant product formula, and to me, it feels like there's some intrinsic truth in it, because it's so simple. It's like, it's so aligned with nature, because it's just a simple product formula. And it works so well to facilitate markets and so I think that's the kind of thing we're going to see, you know, the traditional marketplace would be like an order book. But that's a really complicated mechanism that takes a lot of infrastructure to keep running. So I think we're gonna see that this move from old clunky economics and finance into more systems that are sort of the way I put it as aligned with nature, but just like simple and sort of primitive in their structures, and that enables the, like the composition aspect of like, $money legos$ we are seeing in $DeFi$.

Nathalia Scherer 11:45
On some awesome, thank you. And now we're gonna move towards the Practice of token engineering, and more like the day to day tasks and activities, so she could tell a little more about what that looks like for you. What's your daily work, like, example of typical tasks, tools that you're using?

Participant 10 12:12
Sure, yeah. So there's a lot of different ways of approaching token engineering. I'm sure you're familiar with the token engineering flower. There's many different petals on that flower and I have a specialization in $data science$. So that's what I bring. So I spend most of my days in data science environment, working with the $Python$ programming language, and creating data science models for clients in token engineering, so I work with clients who are creating protocols or creating you know, like token economic systems, like they're gonna create a token and do distribution plans, those kinds of things. And so I I take the models that are proposed or even the ideas that are proposed and build out $Python$ models, which is a way of rapidly prototyping token systems, because you're you get to work with these layers of abstraction. When at the end of the day when you go to write the smart contracts, and deploy those on chain, there's so many rigorous technical aspects that you have to get right. Even just doing, like there's no floating point, there's no decimals in smart contracts, everything's integers. So even just doing simple math can be quite complex, but if you start in off chain and just developing in Python, you can prototype really fast and you can work at different layers of abstraction which can enable you to sort of zone in on different pieces of the system that you want to investigate without needing to actually build the entire smart contracts suite and run tests that way. So yeah, I spend most of my days every day I'm programming in $Python$. I use $Jupyter Notebooks$, $Jupyter labs$ as my data science environment, communications on $Discord$ and $zoom$ calls and $Google Hangouts$. I use $GitHub$. And that pretty much covers it. $notion$ and $Miro$ for design and organization, those kinds of things.

Nathalia Scherer 14:48

And you mentioned you've been with name for about two years, right?

Participant 10 14:54
January 2020 was when we started offering token engineering services, so three and a half years

Nathalia Scherer 15:05
and within that period or even longer, but throughout your work with token engineering, would you be able to give us two examples of polar opposite projects that you've worked with? And why why I'd say they're different from each other.

Participant 10 15:23
Mm hmm. Yeah, yeah, sure. Um, yeah, this kind of goes with what I was saying before of the there being different aspects of the engineering process. In token engineering, there's more the quantified numerical analysis piece, and then there's the social, the social piece. And so I think, usually on the more numerical and quantified side is going to be your classic kinda like, defi decentralized finance, protocols. Often those protocols, they all have the same objective. They're trying to optimize yield, essentially, at the end of the day, create a financial product that is an appealing investment opportunity through offering the highest yield. Um, so one project I've been working on recently, it's called $asymmetry finance$. And it is a very pure defi protocol. In which case it is offering a product that like, it's proposes a, it's decentralizing $etherium$ and it offers a portfolio over what are the LSD products or $liquid staked derivatives$ on $etherium$. So, and it offers a very constant yield, non volatile yield. So in that way, it's a very quantitative projects, very sort of pure defi pure finance applications. On the other end of the spectrum, you could look at something like, well, the $name$ comes to mind where it's more about the social fabric. It's more of a pure DAO kind of thing. So we're looking at defi vers Dao's and in the $name$, even though there's some amazing cutting edge technology that's been pioneered there, the social fabric comes first. That's what's really being produced and innovated is the network of people and the communication layers and the governance layers and the political layers and the design like visual design and all of these like human aesthetic pieces come first before the technology so I think those are pretty Polar. Polar opposites. I've worked on some other things that I worked on a really cool project with $Paul name$ and his team and it was about distributing Bee feeders. So there's this crisis of Colony Collapse Disorder with bees. And the concept is how can we properly tokenize the process of manufacturing and distributing bee feeders across the world and then also incentivizing people to like, keep them filled up with with liquid that the bees consume? So yeah, that's like hardware and manufacturing and people going out in nature, so totally, totally different than defi but yeah.

Nathalia Scherer 18:58
yeah, that's quite quite a range. And, well, how about challenges, challenges and needs? So could you share a bit more about challenges you faced while working with TE? And then maybe also, the field itself itself? What were the common pitfalls when practicing token engineering?

Participant 10 19:24

Yeah, what comes to mind is that the technology that enables token engineering blockchain technology and in my perspective, primarily $etherium$. I'm mostly exposed to the Etherium ecosystem more like EVM compatible chains, but just in general, the technology is so new and we're so early, that there are a lot of difficulties in the user experience and things break things can be buggy. It scares a lot of people away and it also, you know, even if it doesn't scare someone away completely, a lot of people are averse to really getting their hands on the chain and interacting with the chain and interacting with protocols and testing things out new there's even now I work with founders who are who are creating protocols. They have these visions of protocols that they want to create, but they themselves barely even touch the chain. So and it's and using Blockchain technology is just one of those things that there's no better education than actually going and using it when you actually sign the transaction and, you know, send the transaction and interact with the protocol. It cognitively does something that enables people to understand what's going on. And so many people are hesitant to get to that level where they're, they themselves are interacting with technology. And so it creates difficulties in communications. When when a lot of people still don't have an intuition around what it means to interact with web three and to use protocols and to send transactions. Um so yeah, it's like there needs to be a foundational level that we can all get to, whether it's on in small teams or across organizations or even across society. If there could be a base level like I it'd be great if in school, you know, if school for kids like at some point if they could learn about having a $Bitcoin$ wallet, having an $etherium$ wallet, making a transaction. If there could be like a base level of education that we know that everyone has an $etherium$ wallet and they've sent a transaction, then at least we can speak on that level. And know that everyone can have the intuition around what that means. But then as you so if it's in an organization or in a small team, you might want to raise the bar on that and know that we've all used $uniswap$ And we all have an $etherium$ domain name an ENS name and we've all used certain protocols just just to create these like foundational levels. Actually, I like that the $name$ for that, you know, a lot of people will complain that it's difficult. It's so challenging to get involved like what is $wrapped xdai$ and we got to use the $Gnosis chain$ and like all these things, right, and people have a hard time with that. But I think it's it's good if someone can make it through those steps. It forces this like cognitive learning process to actually know what it's like to interact with the chain and and I think we need to get everyone through that that hurdle. It's hard the first time but once you once you do it, it's it's a lot of the stuff is actually simple once you see how it works. So I think that's the biggest challenge is getting those foundational levels to be able to communicate about what it means to interact with chain.

Nathalia Scherer 23:27
And you have mentioned, $token engineering, flower$, and all these different layers, and I'm wondering if you have anything to add about different areas of knowledge that are important for token engineering? Oh, yeah.

Participant 10 23:44
That's tough because it's so diverse and it depends where you're coming from. Like I said, I have a niche in data science. I come from a data science perspective, which I think is really powerful. There is a natural alignment there, bringing a data science perspective to token

engineering because the chain is public data like you can analyze every transaction that's ever happened. Every log that's ever been emitted, and you can look at all the balances of every address on $etherium$ you can get every smart contract and see what it's doing and who's interacting with it. Yeah, so, I would like to personally promote this merging of data science and token engineering, and the intersection that lay between those two fields. I would love to see more data scientists be exposed to token engineering. And that's just my domain. There's so much other work, people are coming from other perspectives and other backgrounds and doing amazing things. In token engineering, yeah, I think that mostly I can just speak from my experience, which is I want to push forward data science. I want to see more data scientists get their mind around, what opportunities there are with blockchains because it's all transparent open data. It's it's all the ultimate space to be in I think, as a data scientist.

Nathalia Scherer 23:57
Thanks, Participant 10, and about ethics. Can you describe the role of ethics in token engineering?

Participant 10 25:57
I think it's really important. We are defining the flows of value, and how we exchange, and how we make exchanges as people and it's, I almost want to say like that's the most important you know, this I had this thought the other day, and it sounds kind of ridiculous, but it's like, oh, yeah, it's that money is the second most important thing in life. Like it's almost the most important thing in life. It's not though, like relationships are more important. But after after our relationships, like, money kind of governs everything around us. And when we think about democracy, like how often do people vote, you know, maybe once a year or maybe a couple times a year, but every single day we get to vote with our dollars, whatever you spend your money on, you're voting for. And that's a lot of power. That's a lot of influence. And so with token engineering, we get to reconsider and re evaluate and redesign all of our monetary systems, and all of our economic systems and financial systems. And I just think that's the most powerful field that exists and is emerging and therefore I think ethics is essential and critical because the world is entering a new kind of phase with things like you know, AGI, $chatGPT$, this kind of stuff. Everything's changing really fast. And I think work is going to change and and money systems are going to change and I'm in this to see it change for the better. I think these can be liberating and enabling technologies that can help us create a sort of next phase for the Earth, a next level of flourishing and prosperity for people, and I think ethics is going to keep that in check, and enable us to collaborate globally. If ethics is at the center, then we have a really good shot of designing new systems that empower people. So I think it's essential. I think ethics is like the most important part of it.

Nathalia Scherer 28:45
and how about in terms of diversity and inclusion? Do you have any thoughts on how to increase that in the field?

Participant 10 28:57

I think well education comes to mind. So just think. Yeah, like Equal Opportunity education. Putting more having more programs available. Yeah, educational programs. So this could come in all sorts of different forms. It could come in content production. It could come in like study groups, you know, of course the $name$ is amazing at this. Also, so there's education. There's like, becoming a token engineer. There's that aspect of education. But there's also just advocating, like, what is token engineering? I think we should have sort of ambassadors like going to universities working with universities and going to lobbying governments and educational districts, you know, like high school students. There should be a token engineering class in high school and I think like getting to that reaching the youth like the younger that we can get people because it's it's hard to change the industry, like, I think you got to start at the roots. So look at like the next generation that's coming and go for diversity and inclusion, like at that educational level, whether it's in middle school or high school or universities or in you know, young apprenticeships, or even with more online native like, just yeah, like mentorship programs or internship programs. I think at that level. Having diversity and inclusivity in mind, sort of on the same level as ethics, it's probably falls under the ethics like the ethics category, but yeah, I think going for the roots and the the next generation and the educational aspect of it.

Nathalia Scherer 31:17
Great. Thanks, Participant 10. And you mentioned in one of the other questions, the importance of money and I'm wondering what's, what's your assessment of resources and money within the token engineering field? So, yeah, I would I would just say that are the incentives for practicing token engineering, typical rewards and ways basically ways of being rewarded.

Participant 10 31:56
Yeah, again, this is going to be very diverse, based on different people's perspectives. One thing I can say is that there does seem to be a lot of opportunities in token engineering, there's a high demand. Like I said, I've with name we've been offering token engineering services for three and a half years and we've had a continuous stream of clients come to us without any real outreach or marketing we we try it we did at one point started creating marketing. We we started thinking about marketing, but then we realized like, we don't need it, it's not doing anything like we already have. clients coming to us naturally like usually every client we serve will sort of end up recommending two more. So there's definitely demand. That's one thing, but just because there's demand doesn't, you know, the the monetization of that is quite complex. And as an entrepreneur, it's been quite difficult for me. i And the reason for that is because the type of there's a like a spectrum along the maturity of clients when it comes to token engineering. There's huge protocols that have billion dollar treasuries, and then their end, but there's a few of those. There's a small there's a small number of those, and on the other end, there are sort of entrepreneurial teams who want to create who have visions of new products and new protocols and new tokens. And so there's, from minimally funded to largely funded clients, there's there's a large spectrum. And just through the nature of maybe it's because I didn't I haven't focused on marketing and sort of targeted advertising haven't gone for those large Treasury protocols. I've worked mostly in the like minimally funded category. So a lot of clients are, you know, months before actually launching a product or token and they're usually very, on a low like a lean budget. And I've worked in a lot of those environments, which, after having now having that

experience and gone through, it's gone through that. You know, it's not something I want to be doing because there's a lot of it's very high risk. Some, some projects don't go anywhere. And especially if you're getting paid in tokens at a very early stage. It's an incredible amount of risk. To take on. Now. Sometimes that pays off. I have been in the case of being paid tokens early on in a project and those tokens do do well and it's but yeah, it so there's this like wide spectrum of risk and monetization that you can take on. It's been a very challenging journey for me, because my training is in data science. That's what I'm really good at. But I decided to come into this space as an entrepreneur and start a business. Something which I have no training or experience in prior. So the creating a business aspect of this has been incredibly challenging, incredibly educational. But it's difficult and I think it's we're at such an early stage where we're going to start to see there's going to be a natural evolution of like the business models that emerge in the space. I think there's going to be some teams and organizations and people who figure it out and do really well. I think there's a huge amount of opportunity that hasn't yet been captured. And there's going to be entrepreneurs coming into the space and figuring out how to capture that opportunity. But right now, from my perspective and just the nature of my personality, it's been quite chaotic. Honestly, it's chaotic. It's like jumping from project to project taking on multiple projects at a time some succeed, some fail. And there's only so much you can do as a token engineer, you know, really I'm just taking on like what we do is we take on the mock we model, the conceptual and the numerical ideas that are proposed by design teams and by founders. And we do our best to model and verify those ideas as best we can, but it's a large space of exploration. And it's kind of like tending to a garden. You kind of just have to water the whole garden. And different plants are going to flourish at different times. I don't know if that answered your question.

Nathalia Scherer 37:00
It's such a broad spectrum that it's helpful to hear the different perspectives and more specifically though, would you be able to share? What do you think is an average salary of a token? Engineer? Average?

Participant 10 37:28
Probably quite, an average token engineer probably does well, which is probably but there's also a lot of like starving token engineers. So um, because like I said, it's such a wide spectrum so I don't know I guess like 60 to 100,000 USD kind of your it's like a standard engineer, kind of so probably or a little bit less. I think it's probably a little bit less than a standard engineer. The average is probably brought down by like I said, some of the some some token engineers are working for tokens that don't have value yet. So a lot of token engineers are basically working for free. But then a lot of token engineers are making $240,000 a year like working for $gauntlet$. So there's a really wide spectrum. And I'd say the average salary should be probably around like kind of an average engineer or a little bit less, which would be in my mind from 60 to 120,000 USD per year, something like that.

Nathalia Scherer 38:49
Now shifting a bit towards the future. Do you have any specific wishes are token engineering future and how do you see it in the next three years?

Participant 10 39:07
Um, yeah, I see it. Really coming into the light of the crypto web three industry? I think token engineering is, there's been a lot of exploration around the space around what is token engineering and I mean, I'm incredibly impressed by the work of the $name$. I think launching a $bonding curve$ and $conviction voting$ and funding projects like this study are so valuable, and we're going to see the fruits of that coming out. I'm really excited about the $bonding curve research group$ and this $token engineering stakeholder study$. I think the data that comes out of here is going to inform the industry really well. And I think the tool sets are going to continue to improve and the methodology and practice is going to continue to improve and I think there's going to be an adoption of token engineering across the space with like, big protocol, like large protocols, and the large companies that are operating in $crypto$ and $defi$ so I'm pretty optimistic about token engineering and I think on the longer horizon you know, 5/10/ 20. I think like the 20 year timeframe is really interesting. I think there's like a 20 year horizon of blockchain becoming the default financial systems for the world and token engineering becoming a very critical and emerging field, in academics, academia, and industry. So yeah, I think on the five year timeline, just like recognition of the field and emergence of really powerful tool sets and methodologies, and on the 20 year timeline, a sort of global adoption and integration into like, traditional academic settings, and yeah, recognition of the industry from like traditional governments and things like that.

Nathalia Scherer 41:30
And in these coming years, as we see AI to continue to advance, there's also potential for it to significantly impact TE so we're curious if you have any thoughts about that and how you see AI potentially affecting engineering.

Participant 10 41:50
Yeah, I think AI is gonna affect everything. It's moving at such a rapid pace and but um, I would like to think it's, it's going to empower token engineers. So whether you're a programmer coding a protocol or coding a model, or you're designing the social aspect of a of a DAO. I think AI is going to become more versatile and powerful toolkit that people have at their side in the design process. So I'm pretty optimistic about that. I think AI is going to be yeah, an empowering tool. You know, I think there's still gonna be jobs like, I don't think AI is gonna replace all humans and no one's gonna have a job. Like I think people are potentially going to become sort of more valuable as they have these kind of AI tools at their side. Yeah.

Nathalia Scherer 42:56
Speaking of that, in terms of people or even projects in the space, could you mention some that you admire that are doing this work? And yeah, if there is anyone that you would add and recommend that haven't added yet?

Participant 10 43:19
Yeah, it's so I'm kind of behind the scenes, and I have added a list of people but there's one that just came to mind. I'm a huge fan of the $name$, ecosystem $name$. And I just yesterday I was

reading through the curve white paper, and the author of that, $name$, I think it's his last name. Just really impressive. The the mathematics of the curve protocol, really impressive. And sorry, my dogs going crazy. And the implementation and the whole $curve Dao$ is just so highly functional. And, and in terms of incentive design $curve$ has created a very sustainable protocol, where it's sort of a closed loop. It's the classic $sustainability loop flywheel$ where $token emissions$ really drive that value back into the protocol. And so yeah, I think that's, that's one person if you could, if you could track down $name$ the author of curve protocol. I think that would be a really valuable person to interview.

Nathalia Scherer 44:48
Thank you. Thank you. And earlier in the interview mentioned doing this work with the intention of making it better in general in terms of like ethics, and it's the I don't know if you would use the word impact that like making things better. Would you say that this is a Do you see other people in the space with the sentiment? Would you say that? Yeah. How do you see this within the field itself?

Participant 10 45:28
Good question. I like that question. Yes, it's very common to meet people who are optimistic in the space who want to make the world better who are in the space because of the impact that they see it having and the positive impact on on society and the planet. Yeah, I think across token engineering across the DAO space, there's a higher ratio of people being optimistic about the future, then just an average sample of of all people. So I'm, I'm really excited about that. But that also in space, you get a lot of diversity. So there are there's people who don't care at all about impact and just want to maximize yield. And so so I'm happy about both those things. I'm happy that there's a lot of optimism and people who are in this for the for the impact, but at the same time, there's diversity, and people are in this for all sorts of different reasons, and I'm happy but both those things.

Nathalia Scherer 46:34
Also, you mentioned challenges for TE in terms of adoption. But we're wondering if you could share a bit more about needs the discipline itself in order for it to events do you have anything to add around that? Yeah, I think.

Participant 10 46:56
Yeah, I think there's a need for two things come to mind. Well, like rigor so like I said, token engineering is an interesting field of engineering because the social, there's huge social aspects. of, you know, the whole concept of a DAO is like, how do people work together? How do people interact? But I think we need to not forget the hardcore, like rigorous mathematical, computational, and new numerical aspects of the engineering side of things. We need to have, you know, rooms filled with people who just want to write math on chalkboards. And you know, that kind of extreme, like, technical, rigorous, like, you know, almost like physics physicists, like physics inspired, kind ofike the $name$ kind of people like we you know, we need to have that and to have room for that in the space and because it can be hard, like if you if you have, like, let's say you create a public space, right, and you get 30 people in there. There's probably only

two or three of them that are down to talk a part for math and hardcore technicalities. So when you have like a lot of public access and public exposure, it can be hard to get through all the attention to the very rigorous aspects of things. So I think that's important. Having space for rigor and having space for for to AI tooling, tooling, tooling. So I think we need to empower like we needed, we need a library, we need a token engineering models library. This is something I put a proposal up on the $name$ forum recently, but there's things like $CAD CAD$ and $token spice$. These are simulation tools, the tools for running simulations, but what we don't have is a collection of models, which is like pulling, you know, a library that has bonding curves and stable coins and automated markets, like all of these things out are because I think every token engineer is designing these like from scratch for every project. So this is like a very specific thing. That I think we need as a models repository.

Nathalia Scherer 49:31
Thank you, Participant 10. And in terms of so I think we've we've seen different terms being used around the space. And I wonder if you have anything to add about that, like, Are there different terms being used to get to talk about token engineering, so like, Yeah, different terms to name token engineer? or similar terms? Yeah.

Participant 10 50:11
Yeah. Yeah. Some people like there's some big players in the space that that have never even heard this concept of token engineering. And I think it's the best I think that's that's what the name should be. I think token engineering is like the way to go like that's the field. That's the academic and industrial field that we that we the world needs at this time. But, yeah, there's like, crypto crypto economics is pretty common. Crypto economic engineering, or there's like tokenomics. But yeah, those are both more economic focus. And I think they could fall under, I think token engineering should be the root. I'm trying to think that there's a lot of like, there'll be like, you know, data analysts who are basically doing token engineering like their job is data analyst but they're but they're you could call this token engineering. Yeah, I can't think of a lot of other terms at the moment. But I think token engineering is definitely the what it should, what we should promote.

Nathalia Scherer 51:32
Lisa Livia any questions you would like to add before we end? Sure. Hey,

Lisa Wocken 51:43
I was just curious first off and Talia and and that whole So Participant 10, wonderful interview just sitting over here I wanted to comment buttons of like, yes, yeah. Anyway. So I'm really curious when you're talking about challenges or needs. Just to stretch out the emotional spectrum. Is there anything that keeps you up at night? I know you're a very optimistic person and you have an optimistic outlook. But is there anything that keeps you up at night when you consider TE advancing?

Participant 10 52:17

Yeah it's kind of what comes to mind is like we're not moving fast enough. Like there's, like I said, there's so much demand in the space for token engineering. And there's almost, I hate to say this, because there's so many amazing leaders in the space. But even though there's so many amazing leaders, I think there's a lack of leadership in token engineering, like like, there are amazing leaders. There's people doing amazing things, so many of the name like in this research group, and in a lot of other organizations, but But still, I think there's not enough leadership to sort of meet the demand and the opportunity that exists. And I think what keeps me up at night is really amazing, potential being unrealized. I think token engineering can solve a lot of major problems in the world, and could potentially do so rather quickly. But we need like, like, I don't know, like an Alexander the Great or like, like a conqueror to come and be like, okay, token engineering, token engineering, like across the board, like we, you know, someone who goes on on the main, like a global platform, and it's like token engineering like this is the way and we're Yeah, and not to take away like there's amazing leaders like $Griff green$ comes to mind, right? He's out there like on the frontlines every day. And there's like all these amazing people but still, I think there's there's unmet potential and there's Yeah, so that's, that's, that's what keeps me up at night.

Nathalia Scherer 53:55
All right. So this case, Participant 10, thank you again, for joining us. This was really great. And I mean, of course you were, you're in the loop with us. So yeah, excited to continue moving forward.

Participant 10 54:26
Awesome, good work Nathalia. This was really a joy. I felt really comfortable. All three of you. You look great. You all dressed up.

Lisa Wocken 54:34
Nice and we're primary colors.

Participant 10 54:39
That's awesome. Good job, guys. This is really exciting.

Nathalia Scherer 54:44
Yes. Does anyone have anything to add? You can message us.

Lisa Wocken 54:50
Thank you. Okay, good.

Participant 10 54:52
Awesome. Thank you all