Extra Credit

Whitepaper

Abstract

The success of cryptocurrencies like Bitcoin and Ethereum has increased awareness of the benefits that blockchain technology offers. As a result, many industries are scrambling to adopt blockchain technology. However, they are unable to get skilled blockchain experts to help them grow. Even firms like Deloitte, PwC, and KPMG are struggling to get enough employees for their blockchain departments. This is because there is no formal place where individuals can get the prerequisite skills to work in the industry.

Extra Credit provides a solution to this problem by providing a platform where students can get knowledge on Bitcoin and other blockchain technologies. The platform is suitable for novices who are getting an introduction into the cryptocurrency world or experts who want to keep their skills sharp. The platform incentivizes learning by offering students an opportunity to earn XTRA tokens when they complete courses or achieve good scores in any of the competitions. Contributors will also earn by providing modules that students can undertake.

It also offers an opportunity for investors to earn through the multiple revenue streams of the firm. They include course commission fees, paid promotions and paid sponsorships. Users can also earn through the affiliate program on the platform. You can get additional information on the website or any of the social media pages. Join Extra Credit as we seek to provide a platform that will increase the number of cryptocurrency and blockchain experts required to push Satoshi Nakamoto's vision forward.

Table of contents

Introduction

2018 will mark ten years since Satoshi Nakamoto submitted his paper that led to the development of blockchain technology. In the span of a decade, blockchain technology has grown from the obscurity of a simple whitepaper to the headlines of most major newspapers around the world. As the Bitcoin transaction volumes keep rising, blockchain technology keeps growing in popularity.

The three most notable industries are confidentiality, decentralization, and security. Blockchains provide confidentiality by leveraging cryptographic encryption in the algorithm. Blockchain networks are encrypted to ensure that the information is kept away from prying eyes. Additionally, user information is protected by the use of pseudonyms on the platform ensuring that no sensitive details are leaked to others within and outside the blockchain.

Blockchain technology is also decentralized. Unlike conventional platforms that use a centralized archival approach to store sensitive information, blockchain technology uses only one ledger and distributes it to all the user accounts on the platform. It is always updated regardless of the location. This means that everyone on the platform has a complete record of all the transactions made. However, since the names are pseudonyms, there is no risk of user information being leaked. It is an ingenious method that eliminates the need for databases or cloud storage.

Finally, Blockchain technology is advancing towards being one of the most secure ways to store data. Part of this is due to the encryption used that prevents others from obtaining information on others. However, the decentralized nature of blockchain technology makes it almost impossible to hack. Essentially, most hackers tend to use brute force attack when they attack databases or cloud-based platforms. This is because there is a central machine and as long as they know the right techniques and have the right computing power, they can breach the system. However, since blockchain technology uses a single decentralized ledger, the information is backed up by thousands of devices. Theoretically, tens of thousands of hackers have to coordinate their attacks to breach a blockchain's security system. This is currently impossible giving blockchain technology unparalleled security.

Unique proposition

Multiple parallels can be drawn from the rise of the Internet and the rise of blockchain technology. Both were first embraced by the technology industry before receiving mainstream adoption amid resistance from corporations and governments that wanted to control the technology. The blockchain is no different.

Cryptocurrencies are a dime a dozen. This has created a lot of skepticism among leaders. As a result, there is a push by most developed countries to regulate the cryptocurrency market. People expect that the number of ICOs and cryptocurrencies will reduce. However, this is only a portion of the blockchain industry. Blockchain has a greater role than simply providing alternative digital currencies. Blockchain technology is set to grow ten-fold before 2025. Many industries like e-commerce, dropshipping, archival of sensitive information like medical records, bank infrastructures, and supply chains are all set to adopt blockchain technology in one way. Clearly, it is not just a simple fad that is expected to dwindle. Blockchain-technology is here to stay.

As a result, there is demand for blockchain engineers who can use the technology to solve the problems of specific businesses. Educating people on this technology is important in alleviating the demand for these skills. Most colleges and universities have rigorous protocols before they can introduce new courses. However, Extra Credit uses a MOOC approach to provide enthusiasts the necessary skills to get jobs and work as blockchain experts. This is very different from most of the new ICOs that are simply peddling the same idea. Extra Credit is different because it is catering for a specific need that has not been exploited. As the first entrant of this new niche, Extra Credit will set the pace using high-quality content from our network of skilled blockchain contributors.

The potential for blockchain technology

When you mention blockchain technology, most people think of cryptocurrencies like Bitcoin and Ethereum. Yes, cryptocurrencies are a legitimate method of storing wealth. That is why Bitcoin, Ethereum, and other successful cryptocurrencies keep appreciating in value. However, blockchain technology has multiple applications in a myriad of industries. Some of them include:

Banking industry

The banking industry has already been disrupted by blockchain technology, but there are more drastic changes expected in the future. Banks and other fi nancial institutions are slowly adopting blockchain technology with the aim of leveraging the security features. Additionally, experts believe that blockchain technology can reduce the costs spent on fi nancial intermediaries by almost $20 billion a year. It will also allow banks to give customers a true personal banking option like what most cryptocurrencies off er. An example is that most people who have Bitcoin store it in wallets on their devices so will have full control of their capital.

Cybersecurity

Cybersecurity has always been playing a catch-up game with hackers. Most of the security protocols are created in response to breaches that had already occurred. This was reactionary rather than proactive. However, blockchain technology provides a way to guarantee the security of networks. This is particularly important for fi nancial networks used for remittance and payment processing. This will prevent the numerous security breaches that many payment platforms face each year. It can also prevent similar attacks like the recent DDoS and ransomware attacks across Europe.

Election management

The 2016 United States election highlighted some vulnerabilities in election management. Blockchain platforms are being developed that can allow the secure transmission of poll information without the likelihood of being breached. This makes it tamper proof. The issues of credibility of elections will be solved. Additionally, it allows the voters to track their vote through the platform.

Supply chain management

Supply chain management is a crucial responsibility for most manufacturing businesses. However, it seriously affects the liquidity of business when the supply chain is not lean, and it can lead to shortages when it is not agile enough. Most of the time issues with order batching are caused by human error or time delays. Blockchain technology can create an integrated platform where a business can manage the supply chain effi ciently. It can also identify problems in advance and align the production and procurement divisions with customer demand changes.

Logistics and the Internet of Things

The Internet of Things (IoT) is expected to revolutionize logistics. However, the IoT needs secure networks to ensure they run smoothly. This can be achieved using blockchain technology. Additionally, blockchain technology when integrated with RFID tracking can help solve some of the logistics problems that fi rms are experiencing.

Public archival

Government departments are turning to blockchain technology as a solution for the storage of information. Blockchain technology can allow citizen information to be stored in a decentralized and secure platform that provides services to citizens. The inclusion of smart contracts can allow some services to be executed on the platform independent of human involvement. This will greatly improve efficiency in government services while reducing any errors that arise.

It is evident that blockchain technology will be an integral part of many industries. In the next two or three years, these six industries will integrate blockchain technology into their operations.

Statement of the problem

Despite the apparent importance of blockchain technology, firms are facing a serious problem getting qualifi ed personnel that can work in their firms. Already there is a hiring crunch as many businesses try to find people with the qualifications to work on their blockchain platforms. Already, many professional firms like Deloitte, PwC, and KMPG are trying to get employees who can work in this area of expertise. They have slots for thousands of experts worldwide, but the number of qualifi ed individuals is quite limited.

At the moment experts believe that there are only 20,000 blockchain developers with the necessary skills. As more companies adopt blockchain technology, more firms are looking for blockchain developers to help develop and maintain their platforms. Reports seem to suggest that qualifi ed cryptocurrency and blockchain engineers are receiving annual salaries between $64,000 to $149,000 for relatively new entrants.

The shortage is even worse in developing countries that require these services. Most of Africa and parts of Asia can benefi t greatly from blockchain technology, but there is no access to information or knowledge to these parts. This is a global shortage. Already businesses are scrambling to get experts on blockchain technology. This demand needs to be met for industries to integrate blockchain technology fully.

This shortage is caused by a lack of education. Since blockchain technology is a emerging technology, there are no colleges that provide a formal education. Most of those in the field are enthusiasts who already have a background in technology. However, anyone can become a blockchain engineer with the required skills. Before universities develop comprehensive curriculum that can train students, there will be a gap in the impartation of knowledge on blockchains. Additionally, blockchain technology is ever evolving. New advancements are being created, new blockchain designs are being developed, and more applications are being discovered. Therefore, even those who are already in the blockchain field need to continually increase their knowledge base as new things are being developed.

The Extra Credit Solution

Extra Credit is a platform that seeks to solve the lack of skilled talent in the blockchain industry by providing a platform where students of all ages can start learning about Cryptocurrency. The training offered simply an overview of blockchain technology with in-depth courses that put students on the track to become future blockchain engineers.

The variety is important because students have different needs. Those in management who want to learn about how to work with blockchain based businesses can take simple courses geared towards blockchain for business while those who want to get skills in blockchain engineering follow a different set of courses.

BitcoinHomework: An Evolving Learning Portal

Our mission with Extra Credit (XTRA) & BitcoinHomework is to provide a learning portal for people with varying levels of experience in the cryptocurrency industry. BitcoinHomework will be a hub for sharing ideas as well as learning about the many facets around cryptocurrencies.

On the platform students both new, and experienced to cryptocurreny can engage in a rich, vibrant and ever-changing crypto learning community. That engagement will consist of online course subscriptions - some of which are free and/or sponsored (and free) from our industry partners, as well as participate in discussions and debates in our various chat rooms and forums.

Community, Partners, Sponsors & Content Contributors

The landscape of crypto is ever-changing, our content will be updated by our content contributing partners, and the ability to up or down vote ensure our students are getting the most current learning information that is available.

BitcoinHomework will engage with thousands of content contributors, pioneers and leaders in the crypto industry who will be considered our valued partners. Their content contributions to BitcoinHomework will be rewarded through course commissions from the students who enroll in their paid courses.

Technical Aspects

XTRA tokens are ERC20 tokens. This means that they are based on the Ethereum platform. This offers some specific advantages. Since XTRA tokens rely on the Ethereum Virtual Machine, the transactions are completed using smart contracts. These smart contracts are commands written using Solidity to complete transactions that are based on if-this-then-that logic. It is programmed using Solidity. Solidity is a high-level language that shares a lot of functions with Java. As a result, any developers who are familiar with Java and JavaScript will not have a hard time familiarizing themselves with Solidity. Since Solidity is also used on the Ethereum Virtual Machine, the execution of smart contracts will be a lot faster.

The contributor uploads their content to the platform, and then they set their preferred prices. Users who want to learn pay for the content they are interested in and a smart contract gives them access to the content. There will also be some smart contracts that cater for the promotions that will be running on the platform. This is a transparent system that ensures users are not scammed while maintaining transparency between the advertisers, the platform, and contributors. A blockchain that has low latency supports the XTRA tokens. Low latency means that there are fewer bottlenecks. As a result, a large volume of transactions can be executed, and the transaction speed is just a few seconds.

XTRA tokens use the DAPP feature of the Ethereum platform to create a unique e-wallet as well as the XTRA tokens. Ethereum allows the creation of two tokens. One is a work-token, and the other is the usage-token. The work token is used to identify the shareholders of a specific DAPP. XTRA tokens is a usage token that allows it to be freely transferable as a method of remitting payments.

Developers can adapt some plugins directly from Ethereum to improve the functionality of the e-wallet. The will only need to be tweaked slightly to ensure they work with the XTRA tokens DAPPs. Any applications and plugins that will be released will be first pre-tested, and an alpha version will be released to a small sample of the users. The information collected from these users will determine whether the plugins will be removed or whether it can be improved. Thereafter, a beta version will be released for optional downloads by the rest of the community. Each of the e-wallets will have a unique ID. This will ensure that each user has a unique ID. The e-wallet itself is decentralized to prevent a central control center that can alter the details in the e-wallet. This protects the information of the users within the wallet.

The e-wallet can also be used offline to account for situations when there is no internet access. However, once power is reconnected, remittance is completed for the goods or services purchased while offline. This is simply a redundancy measure to ensure there is service at all times. The blockchain will be designed to be scalable through pruning. This will ensure that the size does not exceed 100MBs to allow users to access their e-wallets through mobile phones, tablets, and laptops. They need only come with their phone to the exchanges around the country, and they will be able to make payments or look at their consumption history with ease.

Inbuilt into the system will be some AML and KYC layers. These two layers are specifically built to prevent money laundering through the blockchain. The KYC will ensure that customer information is recorded when their user accounts are created. The Anti-Money Laundering function will be inbuilt into the source code to ensure that it adheres to the current and future regulations that are being introduced by governments around the world. Already, most Western countries and some in the Asia-Pacific region require blockchains to introduce the AML features to curtail illegal activities from happening in the blockchain.

Ethereum provides other security protocols. As a parent-child blockchain relationship, Ethereum provides the security protocols while XTRA tokens will pay for the gas uses to execute the transactions on the platform. This is a more cost-effective approach to programming our own Mainnet.

XTRA tokens will run a bounty program to allow freelance developers to test the blockchain to ensure that errors are removed. The developers will be paid in XTRA. The bounty program will be launched after the beta-version of the platform is completed. This will test the redundancies and the smart contracts to avoid future problems.

XTRA tokens rely on proof-of-stake as the underlying architecture. Instead of miners who require GPU power to mine the coins, mining will be done through proof-of-stake. Users on the platform can stake some of their XTRA tokens and get additional XTRA tokens they can redeem in the loyalty program. From a technical point of view, this is an opportunity for users to earn rewards without spending money.

Other earning opportunities and incentives will be implemented as students begin to enroll in our many online courses. We will also be working with industry partners such as cryptocurrency trading exchanges & hardware providers (cold wallet storage devices) and other such providers where their products and/or services can directly reach their desired audience who can learn about their products/services via approved training courses and enable the student to commit from an informed/educated position.

There will also be an online marketplace where approved vendors can sell their BitcoinHomework approved products for Extra Credit (XTRA) tokens that can be shipped worldwide. We have many great plans for Extra Credit & BitcoinHomework, and we need your support to help bring cryptocurrency education to people.

A Working Learning Platform

We're proud to announce that as of the release date of this whitepaper that we have a fully working Cryptocurreny learning platform. The concept of BitcoinHomework was seeded by our founder years ago and as the idea has grown and evolved and the team has grown so has the development of our platform.

The years of concept proofing, prototyping, and development that is already behind us is a free added benefit to our ICO investors who will see a working product and a return for their investment sooner than most ICO's. Investors will get exclusive access to the platform during our stress test period as well as other added token holders benefits such as exclusive course discounts for life.

The Team

Curtis Smith - CEO

Curtis' experience includes knowledge of digital currency, how to manage a highly skilled team, building relationships and driving the company forward.

George Smith

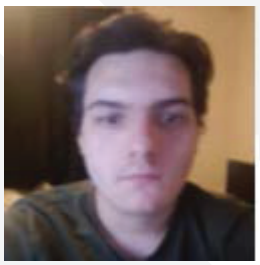
George is an Experienced Business Developer; takes the time to listen and build interpersonal relationships. "My goal is always long term customer relationships, I always ensure you get what you want" Currently owns Isuzu Truck North London Ltd, in the top 4 for truck sales in the UK.

Morris G - Head Of Marketing

Morris has been within the blockchain and crypto space for the last 2 years, with excellent online research skills. He has 5 years of exceptional writing and research skills.

Daniel Westrop

Daniel is highly skilled when it comes to cryptocurrency, he has been in this industry for over 5 years and holds many different cryptocurrencies. He has a passion for web design and a lot of past experience dealing with the cryptocurrency community.



Ralph - Developer

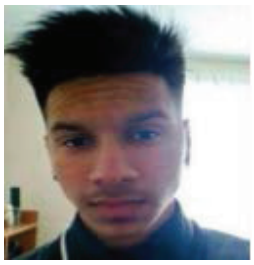
Ralph has over 12 Years of Computer Engineering Experience under his belt and is fluent in over 11 Coding Languages. He also holds a degree in Engineering.

Zayaan - SEO Manager

Zayaan has over 8+ years experience as a Digital Specialist with various skills ranging from development but not limited to marketing. Cryptocurrency is his passion, and believes in contributing for a better world.

Jennifer W - Social Media Manager

Real Estate Investor/Mentor who works with aspiring wholesale investors to help them get to their first deal and create their best lives with personal development. Jennifer believes that the proper mindset along with taking action is the key to success. Jennifer holds a BBA in Marketing from Berkeley. https:// www.linkedin. com/in/jenniferwest09/

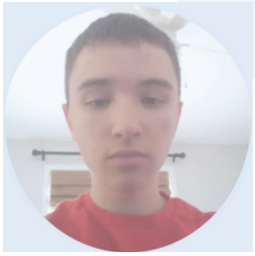


Pranav - Advisor

Pranav Jain is a crypto-trader, an aspiring lawyer, and a soldier in the Canadian Armed Forces that will help Bitcoin Homework deliver & Extra Credit its services efficiently so that students can retain information with ease.

Connor - Advisor

Connor started mining and trading Cryptocurrency at college in 2012. He set up multiple mining farms, a Cryptocurrency hedge fund and a money remittance application, utilizing blockchain technology.



Felix-antonie Belleau - Junior Developer

Felix began coding as a hobby 4 Years ago, and decided to build himself a career doing what he loved so he began Studying Software and Robotics Engineering in College. He is helping Extra Credit develop their learning platform whilst educating himself in the Cryptocurrency world.

Marcel - Advisor

Marcel has been in the cryptocurrency space since 2012. He has a degree in Marketing and Economics, and a big entrepreneur at heart. He is a pioneer in the online shopping and sales industry and offers a great deal of experience to the team Connor

During college 2012 Connor became interested in crypto and got into mining as well as trading. He initially saw crypto to pay off student debt as well as an upcoming industry that would disrupt everything. Since then he has set up multiple mining farms and started a Crypto currency hedge fund as well as a money remittance application utilizing blockchain technology.

OgNasty - Advisor

OgNasty is well known for his involvement on BitcoinTalk.org - Cryptocurrency Forum. He has escrowed over 19,000 Bitcoins for users in the crypto community dating back to June 2011. He has donated over 10 BTC to the BitcoinTalk and is one of the highest ranking members in the world. He also runs his own casascius coin mint, and mining pool on NastyFans.org . He will be working as an advisor, side by side all the BitcoinHomework team members.

We beieve our platform is only as good as our engagement and relationships with our students and our contributing partners.

Extra Credit Roadmap

The Extra Credit idea was conceptualized in 2017, and the team was formed. Later in the year, the conceptual idea was formalized, and advisors gave direction on how to crowdsale and launch the platform. The website was launched and details provided on the platform. The Pre-ICO program will be launched from March 19th (11PM EST) - 19th April 2018 (11PM EST). This gives investors ample time to invest in the Extra Credit at discounted prices. The proceeds will be used to market the main ICO that will be launched in the 1st quarter of 2018.

The proceeds will be used in the development of a smart contract that will deliver Extra Credit upon completion of the course. This provides an avenue for students to make an income. The cryptocurrency progress reports will also be implemented as well as the Bitcoin homework referral system. Additionally, the 2nd Quarter will also see the introduction of the Education Store and improved multilingual support to expand the customer base.

In the 3rd Quarter, the platform will introduce the honor rolls where students can compete with each other in the same course around the world. This will spur the drive for better academic achievement. The 3rd quarter will also see the development of the mobile application to make it easier for students to access the mobile site. The 4th quarter of 2018 will see the launch of the online Podcast classroom. This will enhance learning by allowing different people across the globe to share knowledge by working together in groups / teams.

In the 1st Quarter of 2019, the platform will launch an open source platform for universities, colleges and schools. Universities across the world can provide MOOCs to less privileged students. They will be able to access learning material and interact with others using the mobile application. Extra Credit will revolutionize global education. Finally, Extra Credit will be pursuing sponsorships and business partnerships as the other goals in the roadmap are achieved.

Token Economics

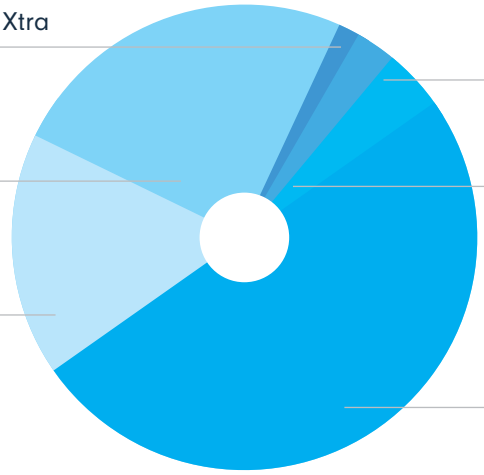
Our aim is to make BitcoinHomework the leading cryptocurrency learning resource in the world. With a potential audience of billions of people and a strictly limited token supply, demand for Extra Credit "XTRA" Tokens will increase exponentially over time - providing excellent value for ICO investors and Content Contributors who will earn XTRA Tokens via student enrolments in their online courses. Extra Credit will also have varying income earning streams through the platform which include:

- Course Commission Fees for courses provided by Content Contributors
- Paid Course Promotions from Contributors/Industry Sponsors
- Paid Sponsorship Courses (for Free or paid courses to promote approved products/services)
- Advertisements

Other income streams will be implemented further down the track however in the interests of being transparent it's important for our token holders to know how these earnings will be attributed and reinvested to grow our platform and expand our reach. Income earnings will go towards:

- Support and Development Team Salaries
- Ongoing Platform Developments
- Marketing & Promotions
- Affiliate Fees

Token Sale



The Extra Credit "XTRA" Token Sale & Specifics are as follows:

XTRA Token is an ERC20 Token

XTRA ICO will have a fixed Token Price AND Fixed Token Supply = Fixed Cap on Funds Raised
Token Sale Price is fixed @ $0.10

The number of Tokens issued will be equivalent to the amount of approved currency contributed by the investor and divided by the fixed Token Sale Price of $0.10

The Extra Credit "XTRA" Token Sale & Specifics are as follows:

XTRA Token is an ERC20 Token

XTRA ICO will have a fixed Token Price AND Fixed Token Supply = Fixed Cap on Funds Raised

Token Sale Price is fixed @ $0.10

The number of Tokens issued will be equivalent to the amount of approved currency contributed by the investor and divided by the fixed Token Sale Price of $0.10

Tokens Issued:

100M Tokens for Pre-Sale

NB: Pre-Sale has a minimum purchase requirement of 25,000 Tokens (or $2,500)

20M Tokens given away in bonuses to all Pre-Sale Investors (equivalently a 20% bonus)

300M Tokens Sold at ICO Public Sale

NB: Public Sale has a minimum purchase requirement of 500 Tokens (or $50)

150M Tokens Held By Extra Credit Team in a public wallet

25M Token Allowance for our ICO Referral Program held in a public wallet

5M Tokens Reserved for Bug Bounty & Promotions held in a public wallet

600M Total Tokens Issued

ICO Referral Policy

We're implementing a 5% Referral Incentive for all token contributers. The allowance of 5M Tokens for this program will be distributed on a first signed up, first served basis.

Extra Credit Reserves the right to burn any excess unused coins from the Referral Program and Bug Bounty allowances if not redeemed. This will add inflationary pressure to the Token from a reduction in supply. For all updates on regarding the Token Sale, ICO status or Token Distributions - please refer to the sources outlined in our Social Networks section in this Whitepaper.

Token Holder Benefits

As an added thank you to our Token Holders - all token holders will earn a lifetime discount for all courses provided on our platform. There are 3 levels of discounts offered:

5%
BRONZE

DISCOUNT
1,000 - 9,999 Tokens

10%
SILVER

DISCOUNT
10,000 - 99,999 Tokens

20%
GOLD

DISCOUNT
100,000+ Tokens

Distribution of Tokens

The Extra Credit Team will distribute tokens in order to serve our biggest token holders first. Please be patient with our distribution process at this stage we anticipate full distribution of tokens to be completed within a few business days. The reason for this time allowance is that we will be manually distributing our Tokens to protect your investment and leakers pre-selling tokens on before launch on unauthorized exchanges/markets.

Affiliate Program

XTRA will be offering a comprehensive affiliate program to promote the community promotion of XTRA Token and the BitcoinHomework platform:

2% commission	Non-Content Contributors
3% commission	Content Contributors
4% commission	Approved Crypto Entities referring traffic from their websites/platforms

Social Networks

Stay Informed! We also we also welcome you to stay informed and follow us on:

Facebook	https://www.facebook.com/ExtraCredit.io
Telegram	http://www.t.me/ExtraCreditToken
Twitter	https://twitter.com/BitcoinHomework
Slack	https://bitcoinhomework.slack.com/
Medium	https://medium.com/@BitcoinHomework
BitcoinTalk	https://bitcointalk.org/index.php?topic=2638162

Community Feedback

We thank you for your time in considering the ICO for "XTRA," Extra Credit. We love the crypto community and welcome all feedback and questions that you may have the aim to make the Extra Credit ICO a success and deliver cryptocurrency education around the world.