

Real Hardware, Real Mining

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Z M I N E EXECUTIVE SUMMARY

ZMINE Team is a group of computer engineers who are interested in encryption and decryption technology gathered to develop an advanced system for cryptocurrency mining. In 2017, we started a unique business model called WRYGC (We Rent Your Graphic Card). The main concept is that everyone can bring their own GPUs to our mining operation. We will operate and split the cryptocurrency received from the mining operation between GPU owners and us without any additional management fee.

Due to the huge interest in cryptocurrency mining and our rapid growth business, we currently have more than 10,000 GPUs operating in our facility. Strek Co., Ltd., the largest graphics card distributor in Southeast Asia acknowledged our potential. The company became our strategic partner with its CEO joining our board of directors.

With our unique business model and strong partnership, we saw the opportunity to issue "ZMINE Token (ZMN)" to fundraise the purchase of a great number of GPUs in order to meet our customers' demand, as well as to meet the conditions of the GPU's factory which requires a large deposit amount and a long period of lead time for the delivery of a large batch of GPUs.

ZMINE Token will be available for purchasing and exchanging for GPUs installed in our system later. Buyers will become the owners of GPUs and will possess all the rights of a GPU's owner. The company also has the policy to buy tokens back at every price and burn them all at a pre-defined time in every month.

ZMINE Token will bring you a great opportunity to join our journey to become the largest cryptocurrency mine in the industry together. We are very confident that our ZMINE token will be the best investment you have ever made before. We look forward to having you join us on this exciting journey.

CRYPTO OVERVIEW

Cryptocurrency has been predicted to be an intermediary to replace cash in the future by using Blockchain technology as the backbone to verify the accuracy of each individual's money transaction.

One important factor that makes cryptocurrency trusted by users is its independence from anyone or any organization in terms of validation and policy. This characteristic of Cryptocurrency allows all transactions to always be accessible for validation and cannot be modified if a transaction is already deployed.

The creditworthiness of the depository institution will disappear as soon as the cryptocurrency is widely used because there is no need of the intermediary in money deposit process.

Cryptocurrency and Mining "Welcome, the innovation of currency"

Currently, the cryptocurrency is regarded more likely as an alternative asset or a speculative investment than as an exchange intermediary. Replacing a traditional currency with cryptocurrency may require some time, some advancement in technology to accommodate the tremendous amount of future transactions, and users' knowledge.

Although the cryptocurrency has not been fully accepted as a medium of exchange, the cryptocurrency has already been accepted of having its market value.

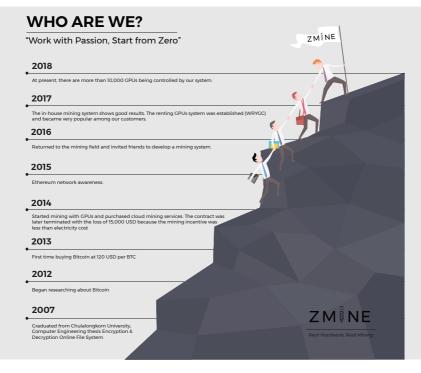
Another method to invest in cryptocurrency is the cryptocurrency transaction confirmation which provides two-way incomes; transaction fees and the block rewards. This activity is known unofficially as "mining". This idea derived from gold mining. A computer generates a random number to brute force mathematic equations to win a prize. The first successful solver will be awarded. The idea is similar to gold mining; those who are stronger and work better, tend to have more chances to get the reward.

ZMINE WHO ARE WE

WHO ARE WE

"Work with Passion, Start from Zero"

We are a group of computer engineers who were brought together by the shared interest which originated from a thesis we wrote during our bachelor's degree about Cryptographic; Encryption, and Decryption. The thesis later encouraged us to buy Bitcoin in the year 2013 at the price of 120 USD/BTC and start mining in the same year.



In 2016, we began to recruit our friends who were interested in advanced technology to establish a new business. We started off by using our own savings money to purchase the equipment.

With our primary interest in technology, our experiences, and ability to develop computer programs, we designed and developed programs to increase the efficiency

ZMINE WHO ARE WE

of hashing power such as Mining Software, Pooling Server, and Rig Management System. After one year in the business, we evaluated our mining system and discovered that, with our customized system, we can improve the hash rate and generate much more profit than general home mining.

In 2017, we launched the WRYGC (We Rent Your Graphic Card) business model where customers bring us their own GPUs and let us manage under the GPU rental agreement. The total revenue will be shared among the company and GPU owners. Since our service has already covered other operational costs, there is no need for customers to worry with any other issues such as staff, electrical systems, network performances, insurances, backup devices, peripherals, and most importantly, opportunity costs.

GPU owners can track their daily mining status from the daily-updated statistics, available on our mining portal on the website. Over the past 12 months, we have successfully proved to our customers, who rented out their GPUs to us, that our performance and their incomes are at a satisfactory level. The success lies in the fact that we currently operate more than 10,000 GPUs with the total value of more than 100 million Thai Baht.

The reason that we chose GPUs as our primary rig, rather than ASICs, is because of its flexibility and ability to adjust the programs to fit the requirements. We can extract the performance of GPUs to work much more effective than general home mining. Although ASICs are featured in its simplicity, no complicated adaptation or management required as they are ready-made from the factory, they still lack flexibility. The mining efficiency turns out to be similar for every miner. The competitive advantage for ASICs miners depends on only the size of devices which also means the capital. However, for GPUs, the mining efficiency depends on the system and mining method developed by miners. In addition, GPUs have been used long before the business of cryptocurrency mining was born. The equipment has existing market value for many other usages such as E-Sport or Al industry, which require the use of high-performance GPU as well.

ZMINE WRYGC MODEL

"Unique Model"

Customers deposit their Graphic Cards are installed in our system. 2. All Craphic Cards are installed seamlessly together with our mining rigs. 3. They will be operated seamlessly together with our mining rigs. 4. The coins will be transferred to the owners every its and listing of the month, came at military of the month.

WRYGC Model

Due to the unique quality of the GPUs, which has various features and flexibility to work, we chose to use GPU as our main mining rig. However, only the GPU itself is unable to complete the system. There are many other components required, such as CPU, Ram, SSD, Motherboard, and more specialized equipment, for example, PCI-Express 1 to 16 Lane Riser, High Efficiency and Output Power Supply Unit.

Those who are interested to invest in a large scale, they must also invest in the infrastructure including the cooling system, building, electricity, network and server. Therefore, we have a vision in terms of these costs subsidization.

Therefore, we developed WRYGC business, so that people who want to invest in mining can bring their GPUs to our company and let us manage under our mining contract. For other components, the company is going to take the responsibility. With the features of this business model, it is easier and more convenient for customers because they own their GPUs all the time. The company only acts as a joint investor with customers. With this unique business strategy, we currently have more than 200 customers. Moreover, from 9 months of operating statistics, we had transferred more than 170 BTC resulted from our mining operation back to our customers.

ZMINE SWOT ANALYSIS

SWOT Analysis

"ZMINE ICO: Idea to Eliminate Bad effect"



Analysis



STRENGTHS

- The current systems have been fully developed and can be operated efficiently and effectively to manage a large-scale mining farm and will continue improving.
- Expert system research and development team.
- Miner monitoring system by experienced staff and engineer team.
- The proactive after-sales service system and the effective trackable maintenance system.
 The efficiency of the programs developed by our system developers allows the system and
- program to maximize the performance of GPU more than the other existing systems.

 Our system has been operated for more than 12 months and has been trusted by more than
- 200 customers in the system.

 High voltage power supply and the and 5,000 kVA power transformer available.
- Spacious 16,000-square-meter warehouse to facilitate the installation of the large number of CPUs. It also supports the expansion both horizontal and vertical with the high roof up to 26 meters.

WEAKNESSES

- Lack of funds to support the expansion of customers because the more customers bringing their GPUs, the more equipment we need to buy to support.
- Electrical constraints; the maximum obtained by the normal wiring system is approximately 13,000 kVA if it is higher than this, it will not be worth for the investment.
- With the limitations of the electrical system. We need to get the appropriate GPU model, matching with the area where the card can be placed. A GPU with low hash rate cannot be used in operating as it is not worth with the loss of the space.

OPPORTUNITIES

- There are many more customers who are interested in bringing in GPUs and let us manage for them.
- With a good return on investment and many people who are interested but cannot learn about the technical specifications in a short period of time, there is still a large room for us to expand.
- The GPU available in the market has not been fully exploited for its performance, we can take
 this opportunity to develop the program which is more effective than others in the market.
- Cryptocurrency market has a potential to grow much more. Currently, it is still very small
 comparing to the money and capital market in the global economy but has high potential to
 expand and generate more profit in the future.

THDEATS

- The reliability of the cryptocurrency has not been accepted by all countries in the world.
- The uncertainty of government opinion towards cryptocurrency.
- Shortage of GPU and the bargaining power of manufacturers.

Strengths

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ZMINE SWOT ANALYSIS

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- High voltage power supply and the and 5,000 kVA power transformer available.
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Weaknesses

- Lack of funds to support the expansion of customers because the more customers bringing their GPUs, the more equipment we need to buy to support.
- Electrical constraints; the maximum obtained by the normal wiring system is approximately 13,000 kVA if it is higher than this, it will not be worth for the investment.
- With the limitations of the electrical system, we need to accept only the appropriate GPU models that suit the area where the card will be stored. A GPU with low hash rate cannot be used in operating as it is not worth the loss of the space.

Opportunities

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ZMINE SWOT ANALYSIS

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Threats

- The reliability of the cryptocurrency has not been accepted by all countries in the world.
- The uncertainty of government opinion towards cryptocurrency.
- Shortage of GPU and the bargaining power of manufacturers.

Since we have encountered with several mining problems over the past 2 years, from taking care of just our own machines to taking care of more than 10,000 units of customer's GPUs, we have been continuously developing the programs and systems to tackle those problems. With our experiences, we realized the big obstacles include the fact that customers cannot find enough GPUs in the market and sometimes cannot decide which models and prices of the GPUs that are suitable for mining. Also, some cases, customers bring a lot of GPUs resulting in the huge amount of our investment fund in order to purchase other necessary equipment.

For this reason, we see a great opportunity to apply our experience with today's technology to address these obstacles by issuing an ERC20 based ICO named ZMN (ZMN Token) so we can gather the money from our sponsors to order GPUs with suitable model and price from various manufacturers. Also, the expansion of mining farm to support the increasing number of GPUs in the upcoming future includes the development of the system which will be able to handle more mining rigs. We also have expert project advisors who specialized in their fields. Moreover, any customers who are interested in WRYGC system are able to buy GPUs which were installed in our facility by using ZMN token.

ZMINE FACILITIES

Current Facilities and Capabilities

"Everything has been ready"



Our warehouse is located in Bangkok perimeter area with a high ceiling higher than 5-storey building (about 26 meters). The total building area is approximately 16,000 square meters which are larger than the size of two standard football fields connected. Recently, the electric transformer has been installed to be able to handle up to 5,000 kVA and up to 13,000 kVA (medium voltage 12KV). In terms of security, from the door to the mining area, there are 24-hour security guards to prevent unauthorized guests from entering the facility. Inside the building, there is a CCTV system operated to monitor indoor and outdoor areas. In terms of facility safety, we also have insurance that insured 170 million Thai Baht and will be increased according to the amount of installed GPU.

ZMINE FACILITIES

Currently, we have installed more than 10,000 GPUs. Moreover, in terms of staff competency, we have experienced technicians to monitor the machines 24 hours, all year round.



With the potential of the space, electrical system, structure, and an expert team, we have potential to grow to accommodate up to 100,000 GPUs or approximately 1,000 million Thai Baht in value to meet the demand. We also have the connection with people who are interested in expanding to promising locations such as Chiang Mai, Khao Yai, neighbouring countries, and other suitable countries as well.

ZMINE TECHNOLOGIES

Our Technology "Focus on R&D, Efficiency is the Key not size"

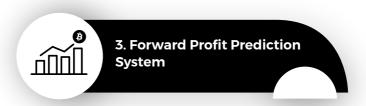
In the mining system, many people believe that electricity is the main factor that determines whether the mining process will generate more or less profit. As an experienced miner, we found that the cost of electricity is just one variable factor that affects the profit. If we aim for a sustainable profit, a good R&D and maintenance are the most important keys. Therefore, it can be seen from the statistic of cards that customers brought us. Comparing the ROI, even all coins were divided in half, the card owner's share is still not different from amount received from home mining. Although sometimes the outcome could be a little less but in the practical, customers who bring us their own GPUs and participate in our system is going to earn a better return. This is because we have a team to take care of the mining process at all time, and spare devices ready to change if any damage occurred. Moreover, we also offer a variety coins mining. We study and track the updates for coins that will start to market in the upcoming future in order to select the coins that will provide the best return from mining. To achieve the plan, we develop the technology to use internally as the followings;



With the rapidly increased number of machines and the variety of OS used in mining procedures such as Windows 7, Windows 10, Linux, Ubuntu, ETHOS, it becomes time-consuming and requires the specialists to install the operations. Therefore, we designed a specialized system which allows any staff to assemble the machine, connect it to the network, and then just press a few buttons and the operating system will be set up automatically, ready to run within few minutes. With this system, we can deploy many miners in a short period of time.



Our main advantage as a large mining farm is the ability to do solo mining technique where the clients in the internal network communicate with the servers only. The clients do not need to connect to the external internet at all. Ability to work with internal traffic only has the advantage that there is no need to share the speed with the external mining pool which directly impacts the latency values. Also, there is no need to pay the service fees to the mining pool operators.



Having a massive hash rate under our control could result in the network difficulties of the coin which we are mining in a specific period. In order to avoid this problem, we have to calculate the quantity, model, and performance of each GPU to appropriately allocate GPUs in mining process for the most benefit. Our calculation will look into the future because a coin that we choose to mine now will be mature and able to use later. (some coins require more than 24 hours) Therefore, we must always calculate and analyze the value and the risk of coin switching.



GPUs which are currently available in the market, even with the same brand and model, when it comes to mining, the performance of each unit may be different. In our system, before fully operating in the real situation, all GPUs have been performance tested to find out their best capabilities and determine the optimum preset for each coin type.

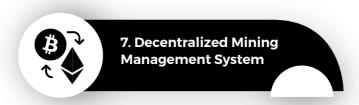


In a large-scale mining farm, 12,000 GPUs in this scenario, to report the performance of each and individual GPU is the hassle issue. Having only text identification could delay the investigation, identification, and problem troubleshooting. Therefore, we develop the graphical surveillance program which displays the results in a graphic format so that frontline employees can understand the problem and identify the location of the problemed GPU quickly. It also has an alert system that detects problems and reports to the system administrator. With the interoperability between systems and people, all the work can be done faster and more efficiently.

ZMINE TECHNOLOGIES



In addition to the software used to monitor and maintain each GPU, we also develop the specific hardware that can monitor the status of the miner at all times. If the Keep Alive system detects unresponsive machines, the system will automatically restart itself or turned off/on for continuous operation.



In developing the automatic coin switching system to maximum profit, we designed and developed a program to control the assigned mining rigs to switch to mine other coins. This independent mining system was designed to work even without the operation of the server for the flexibility and prompt operation.

ZMINE VISION

Vision

"Understand the same view as ours."

To establish the mutual understanding between clients and us.

From a long research of Blockchain and Cryptocurrency technologies, together with our experience of over 5 years, we find that miners play an important part of Blockchain. Whether it be creating a transactional system or producing any application, all have miners as a system component which is why we focus on this factor. This can lead to further integration in the future, such as the creation of digital coins to be used as a symbol of a country's fiat currency or even the development of the Blockchain as a distributed database system to replace the currently used database which is centralized or traditional.

The rapid growth of popularity in cryptocurrency is the original concept of creating a cryptocurrency trading platform to make it more convenient for cryptocurrency users. The company can trade its own coins derived from its mining activities on this website. The website also acts as a marketplace for other users and creates fair competition in the cryptocurrency industry.

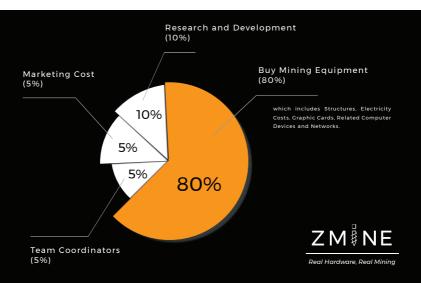
We are miners who believe in the potential of Blockchain and distributed data storage system. We are aware that the size of the mining farm is not the most important factor in the mining performance. For this reason, research and development is our priority.

Our vision and concept, which is the result of our experience, is to focus on miner development by educating, researching, upgrading, and controlling the quality to maximize the performance and decrease the energy consumption rate of the miner with the process called 'GPU Optimization'. The relationship between the system development and marketing strategy is also important. Our main focus is on the system research and development as we strongly believe that an effective system itself is the foundation of the future growth and also has more benefits in the long-term development than focusing in a marketing strategy.

ZMINE WORKING PLAN

Working Plan

"Efficiency is the key"



After receiving the income from each mining round, the company will allocate the expenditures as the following: 80% is used in purchasing mining equipment, which has been carefully selected, such as mining farm structure, electricity system, GPU, network peripheral, and other related items; 10% will be invested in research and development; 5% goes to human resources section. Although the system can operate itself effectively, there are some scenarios which require human decision making. Therefore, specialists are needed to maintain the smoothness of the system; Lastly, 5% will fall to marketing and other operations.

ZMINE FOR TOKEN HOLDER

For Token Holder

"ZMN to You for GPUs"

WHY YOU SHOULD HAVE ZMN TOKEN



You can use **ZMN Token**for exchange Graphic
Cards including Mining
Management Service on

ZMINE.com

In order to remain the benefit of token holder, we have **BBB policy** which use cryptocurrency that is generated from buffer GPU to **Buy** ZMN **Back** on 16th of every month and **Burn** them on the 1st of the following month.





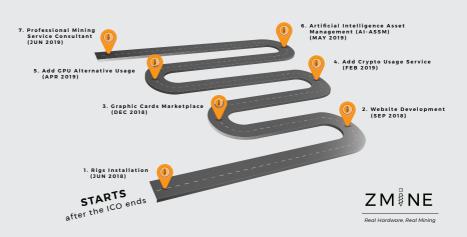
A specific number of ZMINE Tokens can be exchanged for desired graphics cards number and it will be considered that the token payers will become parts of our WRYGC program. On the other hand, we also have a system for the GPU's holders to be able to sell their GPUs and set the exchange rate with ZMN token as needed. Furthermore, We will also have the system to purchase tokens back from customers and those tokens will be destroyed and no longer available. This system is called Buy Back and Burn (BBB).

Z M I N E ROADMAP

Roadmap

"Together, We Plan"

ZMINE ROADMAP



After completing this ICO period, we plan to develop the system and increase a wide range of our mining farm functionality, explanations as given below.

- 1. **Rigs Installation** Immediately after ICO period ends, it will be followed by equipment purchasing, rigs installation, and system startup according to the plan.
- 2. **Website Development** Development of the website, so people who are interested can purchase GPUs and start the GPU rental contract with us. Becoming a customer in WRYGC program will become easier through our website

Z M I N E ROADMAP

- 3. **Graphic Cards Marketplace** The next phase of website development is the GPU trading platform on which allows users to trade GPUs at their satisfactory price and quantity.
- 4. **Additional Crypto Usage Service** The WRYGC clients can use their tokens in other fields, such as Master Node, Crypto lending, and so on. (Subject to the accessibility of the technology at that moment)
- 5. Add GPU Alternative Usage Instead of using the GPU to generate only the cryptocurrency, we also plan to implement this graphics card to other applications that will make an attractive return to customers; such as Graphic Render Farm, AI, and Machine Learning Farm. (Depending on the compatibility of technology in the future)
- 6. **Artificial Intelligence Asset Management (AI-ASSM)** Our WRYGC clients can choose between normal payout, or left some part of the income to be managed by our AI-ASSM system.
- 7. **Professional Mining Service Consultant** With our know-how and technology including the design of infrastructure and the mining system management knowledge, consultant service will be available to provide support for those who are interested in opening a large mining farm.

ZMINE TEAM FOUNDERS

MR.KASAMAPAT VITHANWATTANA CHIEF EXECUTIVE OFFICER, ZMINE CO., LTD.

As one of the leading experts in crypto-currency and blockchain in Thailand with over 12 years of experience in IT, Mr. Kasamapat has a humble start with working in Space Imaging since 2005 at Space Imaging Southeast Asia Co., Ltd, Loxley Co., Ltd, Thailand and GISTDA (Geo-informatics and Space Technology Development Agency), Thailand. After that, he worked as a sales engineer and an IT data warehouse officer, and the founder of Re-Project Group. What is more impressive is that Mr.Kasamapat possess in-depth knowledge of IT Data Warehouse and GISChain, RDTR: Renovated Delaunay Triangulation Reconstruction, and the ability to bridge the business world with IT requirements. He is also fintech entrepreneur at the forefront of Thailand's fintech industry and as the first cryptocurrency mining equipment provider in Thailand. Mr. Kasamapat is currently a PhD Candidate in Computer Science: Data Warehouse and Geographical Information System, University of Redfordshire



MR.SIWAT SUKSIRI CHIEF OPERATION OFFICER. ZMINE CO., LTD.



Over 10 years of experience as a software engineer and an entrepreneur, Mr. Siwat excels in hardware development, electrical, microprocessor and web development. He is the main catalyst of development of ZMINE Co., Ltd. His responsibility lies in ensuring the smooth operation of software and hardware in the 24/7 operation while maintaining the high performance of both workers and machines with scheduled maintenance and controlling the worker circulation. Mr. Siwat specializes in developing software and hardware to be able to operate at its full capacity. His past experiences involve redesigning/developing company purchasing system to be 10 times faster and more reliable while using only existing equipment, designing and developing Thai government support system, and designing the whole operating system for rice mills.

ZMINE TEAM FOUNDERS





The man behind the groundbreaking software development in ZMINE Co., Ltd., Mr. Wansarit has over 12 years of experience as a Software Developer with numerous notable successes. Among many is the application development; he developed Lockscreen MacOS Application and it became number one in Top Paid Utilities Applications in 47 countries, and many iOS Applications that were ranked in Top 3 in AppStore Thailand. He used to be a computer buyer guide in Commart Comtech Exhibition and experienced in many advanced projects such as highly available Instant Messenger, Java Application that supports decentralization in system maintenance which allows users to communicate each other without any server since 2006 and his software development for the Banking Industry; web application about RAROC (Risk-adjusted Return on Captial) at Krung Thai Computer Services Co., Ltd and OMDBS (Online Multimedia Data Banking Services), Web Application that support local encryption-decryption and real-time decryption streaming services since 2007.

MR.WITTHAWAS BOONYAPINYO CHIEF ENGINEER, ZMINE CO.,LTD.

With 10 years' experience as a computer engineer and an economic and finance enthusiast, Mr. Wittawas holds an undergraduate degree in engineering and a graduate degree in business administration from ones of Thailand's most prestigious institutions, Chulalongkorn University and NIDA. He has knowledge and experiences in technology, business development, and management. His past achievements have started since university years; Winner: Small-Size soccer league, RoboCup Soccer Thailand Championship 2007; 1st runner-up: Small-Size soccer league, World RoboCup 2007 in Georgia, USA, Faculty of Engineering; and the Student Leader of Computer Engineering Major (CP31), Faculty of Engineering, Chulalongkorn University. Ever since, he has worked intensively as a software developer, combining his knowledge in economics, his contribution in ZMINE Co., Ltd. is crucial.



ZMINE TEAM FOUNDERS

MR.JIRASAK PREMPOJWATANA DIRECTOR, ZMINE CO., LTD.

As a co-founder of ZMINE Co., Ltd. and a strategic partner, Mr. Jirasak is a visionary businessman in fintech industry. Mr. Jirasak is the founder of Strek (Thailand) Co., Ltd. From the company's humble beginning in IT Component industry in 1997, Strek has dedicated itself to distribute IT products both to dealers and end users every day. Over 20 years of experience in IT Business has very well prepared Strek to embark on the new business initiative. Mr. Jirasak also made Strek the leader of Graphic Card Distributor, mainly supplies IT component to well-known brands. His initiatives involve Strek business diversification; full-service provider to consumers, implementing solutions with corporate users and put a strong emphasis on the dealer partnership. Under Mr. Jirasak's leadership, Strek received multiple awards from top tech firms; the most notable ones include Top Sales Distributor for GeForce 2014 and 2016 by NVIDIA and Top Graphic Card Distributors in ASEAN 2015 by AMD.



Z M I N E TEAM ADVISORS



MR.DISAK SRISUWAN

Mr. Disak is the Managing Director of Atec Computer and a professional airflow ventilation consultant. Mr. Disak has over 27 years of experience in the business of manufacturing and distributing computers. He is specialized in designing the airflow ventilation for chipsets in computer cases and also the large-scale air ventilation system for cryptocurrency mining farm.

Mr. Sittiphol is a prominent figure in Thailand as an in-depth blockchain technology consultant, the founder and blogger of Cheese Factory Co., Ltd. With the deep understanding of blockchain, Mr. Sittiphol writes about blockchain technology in his blog, Nuuneoi.com, the website with over one million visitors per year.



MR. SITTIPHOL PHANVILAI

ZMINE TEAM ADVISORS

Mr. Kittiwin is the CEO of wepay.in.th., an online e-payment platform. Mr. Kittiwin is our professional payment technology advisor. As an expert in e-payment, he has been in the industry for more than 10 years and specializes in all systems of products and services payment via an online platform. His firm is also one of the top service providers which accept Bitcoin payment.



MR. KITTIWIN PIPOPWATTANA

