**Introduction**

In the world that we are currently living in one of the main struggles that we are facing everyday is the time management. In the last decade every innovation is happening rapidly and it is getting harder to follow them as time passed. It causes a time inefficiency problem for the institutions more than it ever was. Improvement in the sectors increases the total amount of competition between firms. Because of this greater competition their expectation from their employees are higher than any other century. Because of the fact that firms have higher expectations from their employees, they became more selective before hiring new employees. For this reason, students face more challenges to get hired by firms. Students have to be successful with their major also they need to gain more skills and make their selves better candidate before their graduation. That causes lots of competition between new graduates either.

Even the firms looking for better employees and students working hard to make their selves more capable. The mechanism to hire new employees is not efficient if we compare it with that hard work of firms and students. Firms have no tool to verify their candidate’s diplomas authenticity. The only solution they can do today is to contact to school that candidate has graduated and ask diploma’s authenticity with their diploma number. Since there are many different candidates for firms and schools have lots of graduates who are currently looking for a job, this solution requires a lot of time and work for firms and schools in the same time.

Also, there is a fake diploma industry across the globe. Some websites are providing fake diplomas for their customers in the return of relatively small amount of money. Because of that exchange, thousands of people are working for jobs that they are not capable to work in. Those jobs include CEO’s, engineers, doctors even teachers. Since firms has no tool to verify diplomas authenticity of candidates there will always be people who will work for jobs that they are not qualifying to work in.

Blockchain’s Decentralized Encrypted Technology gives us an opportunity to solve this problem with a new system. With this new system schools can be sure it is impossible to make an imitation of their valuable diplomas and their graduated students can easily share their diploma’s links with the people -or firms whoever they want them to access their diploma. Also, firms can easily access their candidate’s qualification in seconds without reaching any mediator…

**Approach**

In our system, we are building a blockchain wallet for our graduates and make them able to share their public key with their job applications or their LinkedIn accounts, so firms that they apply to work with can easily verify their diplomas authenticity. In order to teach firms how to use this new technology, we are currently approaching many firms in different sectors. Since Bahcesehir University has 500 CO-OP partners in many different sectors that they are currently working with as partners. We are reaching them to learn how they can use our system efficiently so firms can understand this technology better and use it without any doubts. We want to get through this transitional period as fast as we can, so our graduates can use their diplomas as a leverage. (**Verbal**)

**Existing Projects**

* + In October 2017 [MIT](http://news.mit.edu/2017/mit-debuts-secure-digital-diploma-using-bitcoin-blockchain-technology-1017) announced they gave Digital Diplomas to 111 of their new graduated students. They used an app called BlockCerts to verify diplomas for MIT’s graduated students. MIT’s project was the pioneer on the using blockchain technology for education.
  + In June 26th 2018, Russian Financial University announced that they will store diploma records using blockchain. They are using their website to verify diploma’s authenticity with the diploma number.
  + There are some domestic and foreign private companies who are trying to sell blockchain diploma service to schools as a product. (Exchange of their tokens or directly charge money for each diploma.) This is just a business model and it has no academic purpose or background. Which we do not approve.

**Further Research**

Our main aim is not just moving Bahcesehir University’s diplomas to blockchain. We want to build a Blockchain Ecosystem between universities and institutions in Turkey. That’s the main reason why we are publishing our code open source for further researches. We want other universities to cooperate with us to work on this technology. So, we can apply this technology better between all of the universities and institutions in Turkey.

**Conclusion**

Today there are 185 universities in Turkey and this number will increase with government and private investments in the education sector. Currently there are more than 125.000 foreign students in Turkish Universities. If we improve our diplomas quality (easier to access and impossible to make an imitation of it) we can improve our education sector and we can welcome more foreign students in Turkey…

**Abstract**

This paper introduces our research on applying Blockchain Technology to Education. It includes main problems on the current systems and other researches from different countries. In this paper we described our technology and our approach to the problem. Also, we describe our main focus as an Academic Institution is to understand and teach the Blockchain Technology to other institutions and students. Furthermore, creating a healthy ecosystem between universities and firms in Turkey.