

THINK CODE. THINK TECH. THINK EDUCATION. INTELLIGENT INTEGRATION IN A WORLD DRIVEN BY TECHNOLOGY



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Abstract

The digital landscape of the future is so huge, successfully tackling the seamless and intelligent integration of it will require a unified effort by everyone impacted. If humanity hopes to succeed in achieving sustainability as a necessary means for survival, then technology and education must be the key templates for everything. To thrive as a species, profit cannot come at the expense of education any more than education standing in the way of profit. A technocratically fluid society will impact every aspect of human interaction and integration.

Project Gnosis: Tech Ed Development Centre [1] specializes in developing educational programs to teach school-aged kids digital literacy. It is continuously evolving curricula, the basis of which is coding. The goal is to endow students with hard and software skills vital for navigating their way in a future driven by technology. Courses are meant to be taught in real time and in real classrooms. Nothing replaces the value of human interaction.

Inspired by the modern learning [2] platform, the curriculum integrates a hands on method of intelligent play as the basis for success-oriented learning. Digital fluency will fundamentally impact the future in all areas including the arts, environment, economy, science, technology, innovative industries and politics as well.

We are living in a digital renaissance and it's only a matter of time for a new paradigm shift to occur because of it. The impact modern technology has on human evolution is every bit as influential as the printing press was when it was first introduced during the 15th Century. Realized or not, human beings have been tech-driven creatures since the days cave dwellers first discovered the benefits of fire.

Today most of us would agree that the universal fuel driving technology is coding. Coding is the language of human innovation and development. The internet of things is the platform that provides us with the opportunity to participate consciously in our own evolution. For the first time in history, the digitization of all things has unblocked our imaginations. Our capacity to create is not just virtual anymore. It has challenged and impacted literally every corner of our thinking. With the right blend of educational components, we stand a good chance to save the planet from, what can now be considered by many, the plague called humanity.

They say it takes a village to raise a child. Today we have the means and potential to unify humanity for the greater good. It will take forward thinking, globally minded educators, business developers, investors, and globally concerned citizens alike to make it happen. It begins by building and supporting a sustainable education platform with an end goal to positively impact industries on all levels. The disconnection between all aspects of technocratically driven industries needs be dealt with collectively.

A techno-fluid society can only be as successful as its primary educational platform. The operating systems put into place must furnish students with practical skill sets they will need to navigate themselves in a world driven by technology. To accomplish this, a complete curricular reset needs to happen, beginning as early as Kindergarten.

Technology today has thrust us into warp speed and we can only anticipate a continued acceleration in the decades to come. It's time to empower children to be the change we need to see and steer the course of human development for the better. Education is our only hope as a global civilization to get this right.

1 INTRODUCTION

People have been cognitively and technologically driven since the discovery of fire. Human curiosity combined with their innate lust for conquering the forces of nature, is perhaps one of the greatest contributing forces and threats towards the survival of the species. Today, without doubt, science, technology, and computer languages might well be the single most important cornerstone humanity has left to exploit as the final building blocks necessary to save humanity from its own ignorance. It is no longer enough to be passively interfaced with technology. The future success of our societies will largely depend on helping its younger generations become the drivers behind it. Suffice to say, digital literacy and intelligent integration through the educational systems [3] is our best course for action.

To say language [4] has been one of the greatest driving forces behind human evolution is an understatement. Without the ability to read, write, and develop the complex syntax of modern language, the world as we understand it today would not have been possible. Educational systems and their architecture have also demonstrated the value of structured learning as an efficient and effective way to support the healthy development of all world nations.

Consider coding as an advanced form of language development. Mastering this is key if we are to move into the flow [5] of Gnosis (as the Greeks say) or universal knowledge necessary to surf the next wave of human evolution. Education and digital literacy may very well be the last chance we have as a dominating species to save the world from humanity's own blind spot.

2 METHODOLOGY

Project Gnosis: Tech Ed Development Centre [1], a grass roots EU based organization was inspired by the powers behind "Hour of Code" [6] in the U.S.A. The P.G. team created an intelligent, interactive method of technical education "Ed Tech", to support school-aged kids and their educators develop fluid and enriched technical literacy skills. They consider themselves a dedicated research and global content development team. Their Ed Tech courses were created in-house with the intention of nurturing and enhancing the analytic development of school-aged children, beginning in Kindergarten through to grade 12. The basis behind their curricula architecture was performing an in-house global education research initiative to establish the best methods to build strong analytic and critical thinking skills through a variety of mediums. As a basis, they chose several learning platforms including modern learning [2], Montessori methods [7], Anthroposophist [8] philosophy of learning etc. They believe in learning-by-doing, social development through group projects, as well as quieter individual time for self-reflective thinking to learn. Based on their understanding it was important to strive to maintain the right balance between screen time, hands-on learning, individual and group learning. From that point, the only way to be certain if their program worked, would be to test pilot projects using both controlled and random groups to do their courses. The end result, although testing remained small in numbers, was a resounding success. The P.G. team, their students, and the parents were very happy.

The Project Gnosis team continuously consulted and interacted with students and parents in such a way that everyone was actively participating in the development of the overall curricula. Everyone was consciously involved in the learning processes. This program was built by the people for the people. Hence why one of the four cornerstones of their company became "**It takes a village to raise a child**".

Respectively, if you grew up any time before the 1980's "internet" [9] was not even a thought for the vast majority. In fact, the word wouldn't be used in mainstream language until many years later. With the exception of a few individuals, generally speaking, we had no idea what the implications of the world wide web and internet would have on human conscious development. In the late 20th century, people who owned personal wireless communication devices were simply looked upon as science fiction characters. During that period, the average family would have had only one telephone, one television etc. Moving forward little more than 25 years, the pace has accelerated, day-to-day life is barely recognizable for those who grew up during the internet 'free' years.

Navigating our way forward, it is vital to slow the pace and provide school-aged kids with the opportunity to develop the unique skill set required to become the drivers of technology instead of passive users of it. It is no longer acceptable or even safe being passively interfaced with the digitized world [10] and internet of things [11].

Robots, smart phones, computers and software will not teach kids to code any more than a calculator can teach us math. These are tools which support educators in instruction. Contrary to popular science fiction, humans cannot be replaced by machines to do everything. Human interaction is vital if we are to learn from one another. Project Gnosis has deliberately stayed away from online courses. We use alternative learning methods, create lesson plans, and other supplementary programs to be taught and learned in real time and in real classrooms. We have taught students using various hands-on methods of education [12] so by the end of the years between kindergarten and grade 12, students would graduate with a basic working knowledge of the fundamentals in Ed Tech. It takes an adult at least 4 years to complete a degree in computer science. What makes people believe that a robot can teach a 4-year-old to program in 6 months?

Learning to code is as relevant today as math, science and literacy was at the dawn of the 20th century. Technology drives everything. It affects us in all ways including our social, political, personal, educational, industrial, scientific, and economical structuring. So why aren't we teaching it to all school-aged kids from day one? If math, language, and science are mandated as core subjects in schools because they are a necessary component of a well-rounded education system, then why isn't coding? Programming languages are binary algorithms and the syntax, while logical, is not something which comes easily simply by tinkering with robots.

Learning to code takes time and practice but is quite manageable if it is introduced around the time a child's critical thinking has developed (roughly 11+ years of age [13]). Before that, strengthening the critical and analytic thinking process is very important step as well.

For hundreds of centuries language [4] has shaped the world and the developing societies in which humanity has evolved. Programming is perhaps one of the most advanced languages of our time. It has opened the doors to study in depth quantum mechanics and computing, which have even lead scientists to discover alternate universes and dimensions [14]. With something this significant, one must wonder why we have yet to take the initiative to teach everyone how to code? The fact is, most people don't really have a clue how programming languages work, let alone what they could do with that kind of knowledge if they had it. Grasping the significance of it requires in-depth understanding of how technology has impacted humanity on every level from personal psychology to business, economics, political structures, educational platforms, agriculture, religious/spiritual infrastructures and more.

We did not come close to understanding the significance of how the internet would impact the world when it first was introduced for public consumption. In fact, it would take many more years before we barely scratched the surface in terms of understanding what the applications of the internet would mean to global development. Interestingly enough, in the 1950's, coding was considered to be clerical work resulting in most programmers at that time being women [15]. We are only just beginning to directly experience how fast and dangerous global digital ignorance can impact us as a result of insufficient technical education. Needless to say, the importance of what coding can do for human development is slowly dawning on us, but ultimately it remains underdeveloped at present. Mostly because less than .03 percent [16] of people on the planet actually know how to code! We need to decelerate and think for a moment if we are to avoid this calamity of human ignorance.

History has demonstrated people tend to avoid what they don't understand. The team at Project Gnosis Tech Ed Development Centre however is not. They developed a curriculum they know will teach kids to code. Their results, however small, is enough to know that learning to code will unlock the gates to a better, more sustainable future. Not knowing how to code in the 21st century is equivalent to being illiterate in the 20th. So what's holding us back from getting the proverbial ball rolling by now?

Perhaps one of the bigger contributing factors lies in the disconnection between two diametrically opposed generations [17] – the baby boomers and the millennials. We must also take a critical look at the huge gap [18] between the rate of acceleration of educational infrastructure, business and industry development, and political policy. Statistically, it is estimated there are roughly 21 million [16] programmers worldwide. That translates into less than .03 percent of the global population currently being computer literate. Relatively speaking, this is absurd.

Historically, knowledge has always been passed down from older generations to the younger ones. This is the first time in modern history that it appears this will not happen. We cannot give knowledge to children we simply do not have to give. We are living in uncharted waters as we see younger

generations seamlessly embrace whatever the internet throws their way. We are experiencing directly the impact for better or worse. Even the youngest kids today appear to be naturally endowed with an ability to incorporate the digital world with ease. In most cases they have more than surpassed the adults around them in terms of their technological interfacing. However, we are quickly witnessing the results of what happens when entering the uncharted waters of the virtual internet world. One need not look farther than what happens on social media [19] platforms to understand the powerful and often negative impact passive use of technology can have on the masses. It is not to say social media is to blame for what is happening in the world. Lack of proper education is. The internet and social media is not the problem. How we use it is. Our blind acceleration developing technology must slow down. We are only just skimming the surface in terms of what we know about the internet, its applications and implications.

The cornerstones of digital education must now be approached with an attitude that reflects the understanding that with great power comes great responsibility. Being passively interfaced with technology instead of actively involved in the development of it is anything but responsible. Just as it would be inconceivable to leave a container of gasoline and a pack of matches in a room with a curious 5-year-old, so is leaving kids driving blind in a world ruled by technology. We need to proceed with caution at the dawn of this very exciting digital age. The children are our future. What we invest in them today will either create or destroy the future for them. Understanding how to manage the digital world is vital and the doorway is found through education.

Fools rush in, or so they say. Project Gnosis, a grass roots company dedicated to education, took the time beginning in 2013 to slowly research the best method to architect off-the-shelf learning and teaching programs so kids could learn how to code. 'Tech Ed [1]' was a home-grown term before it became more popularized around 2014 in the UK as 'Ed Tech [20]'. At the time, no one else appeared to know what or how to handle the warp speed of tech development, the internet of things, global digitization and bridging the gap with education. This gave way to a home grown grassroots research initiative known now as Project Gnosis: Tech Ed Development Centre [1]. The philosophy of which was founded on four cornerstones:

1. It takes a village to raise a child.
2. With great power comes great responsibility.
3. Education is a human right.
4. Give children fish, feed them for a day. Teach them to fish, feed them for a lifetime.

Our planet [21] in many ways, has been decimated and overpopulated by its predecessors with no distinct plan in place to rectify humanity's transgressions. It has been suggested humans have become parasitic and viral to the planet. Something must be done to cure the disease of humanity's thoughtlessness. Is Ed Tech the answer? The team at Project Gnosis believes it is. Why is it that in the first quarter of the 21st century we still do not have a publicly funded programs in schools? It appears many of our politicians and policy makers would rather live in a kind of complacent fear of the unknown than embrace what change might bring. It is almost as if we have been programmed to live in blind ignorance and more often than not, greed and complacency is what lies behind the problem. They say it is better to be with the devil you know than the saint you don't, yet history [22] has clearly demonstrated what happens to people who cower in fear and walk the path of ignorance.

Technology is not the problem. Computers are not the problem either. Fear of change and what we do not understand, however, has in fact become our biggest problem. Leaving the digital landscape in the hands of a few gifted individuals and a motley crew of self-taught teenage hackers is hardly a sustainable solution for the direction of either humanity or education. For example:

Coding and hacking led the way to the construction of a sinister virtual world known simply as the darknet [23]. It is a space where misguided self-taught hackers can go and quickly learn that indeed crime does pay. Between puberty and the underdeveloped cerebral cortex's of these quasi virtual magicians [24], the consequences of their actions are decidedly worth the risk in many cases.

“With great power comes great responsibility”. [25]

Teaching people to handle the power global digitization brings depends entirely on how we educate them. Today, most education platforms hardly scratch the surface in terms of accomplishing this. Subjects such as ethics and philosophy are no longer considered mainstream core subjects in most of our civic curricula. What does ethics have to do with coding and tech? Everything. A moral or ethical compass is a very important tool when entering the doors to the kingdom of coding. For example:

The false reality projections of social media [19] on society (mostly kids) has set a dangerous precedent of striving for perfection. The consequences of which can be crippling at best, and deadly at the worst. In the absence of ethics, we see kids struggling to cultivate moral compasses in a degenerated [26] world that worships money and vanity abounds. False standards of perfection have made us too afraid to make mistakes. Worse still, admitting to making mistakes in the first place. The blame game, fake-it-till-you-make-it culture is slowly killing us. We even have an education system set up to judge students with a grade point system that fundamentally strikes the fear of God in kids when it comes to failing. Making mistakes for kids today is categorically considered the equivalent of failure as a person. This perception is simply false. In fact, looking at history demonstrates that humanity's greatest achievements and learning curves happen because of failure, not in spite of it. Mistakes [27] teach us a lot and support us in learning even more.

We are living in extremely uncharted waters, leaving a broad sector of society vulnerable due to a lack of education. As much as we have benefited from it, the tech industry/internet of things [28] has been monopolized by a handful of self-taught visionaries now recognized as the kingpins of the industry (Google, Apple, Facebook, etc.). That was an organic consequence simply because so few people understood the vision and potentiality of what technology and the internet would do for the world. These people are the trailblazers, pioneers, and visionaries of innovative thinking.

Every day we see and experience the serious vulnerability industries, such as politics, social media, and marketing, can experience as a result of mass digital ignorance. This could simply be circumvented and resolved with education. For example:

Few schools if any, offer data security courses. Cyber bullying [29] is just one example of the severe consequences that arise from digital ignorance. If you play with fire, you are going to get burned. It's that simple. In German, there is an expression “Dummheit tut weh”, meaning “stupidity hurts”. The internet and mainstream use of technology with no in-depth understanding of the impact it will have on people, especially children, is unacceptable. Education, more specifically technical literacy and understanding, is the only effective means to shine a light on the ignorance of the matter. Consequences such as cyber bullying and fake news [30] are just two of the harmful realities in store for humanity if we do not decelerate the pace of technology and take time to educate everyone better.

The rapid acceleration of technology without a concrete learning platform in place, combined with our voracious involvement in it is alarming to say the least. The insatiable greed for all things tech and the jaw-dropping revenues it generates as a result is creating a recipe for human disaster. We need to stop and think about the bigger picture for a change. No doubt Tech education will pay itself off in the long run. Flying blind is no longer an option where technology and humanity are concerned. Hoping and wishing is not an acceptable alternative to digitally intelligent integration for kids.

3 CONCLUSIONS

The world sits on the edge of a political, economic, environmental and social collapse. Many believe the one saviour [31] of the planet is technology. We have the means to use our intelligence to cohabitate in peace on this planet. We have the means to let every human being thrive. How do we cultivate this potential? Simple, educate [1] children. They are the future. They are the ones to heal the world but not if we do not give them a proper set of skills to work with.

If a ministry of education can mandate literacy, math, science and history, then coding needs to be on that list as well. Failing to do so in a technocratic driven society is not only detrimental to education, but also to the global economy, politics, technological development etc. Most people understand coding as having something to do with writing apps or creating video games. The general attitude is

why learn to code when there are already lots of people creating programs? 0.3 percent of the world's population is hardly an excuse to remain illiterate. Coding is as necessary a life skill today as reading and writing was with the advent of the printing press. It's that simple.

To illustrate further, back in 2000, there was a young hacker who went by the alias Mafiaboy [32]. The 15-year-old self-taught Canadian youth managed to hack into several websites, including Yahoo and Ebay. The hack literally cost \$1.5 billion USD in lost revenues during the few days he managed to crash the sites. Fortunately for us, he now works in security for his government. Some may wonder why he did it. The truth, although disappointing, is simply because he could. At the time, Mafiaboy [32] was an adolescent, bored and angry at his parents. He was looking to show off what he could do to his friends. In other words, he was a normal 15-year-old kid. He could not have possibly been fully cognisant of the consequences of his actions at that time. The cerebral cortex (centre of the brain where rationale is developed) in a human being does not begin to form until well after puberty ends. Today, what hackers like Mafiaboy [32] can do is child's play.

This is one of many examples of why Ed Tech is vital for protecting humanity and its future sustainability. Uneducated hackers/coders and cyber-crimes are almost always synonymous. They happen, because nine out of ten times, it pays without consequences. How is this possible? Again, because when more than 99% of the world's population today remain digitally illiterate those people in the know, will take full advantage. For now, it's still a winner-takes-all platform. The privilege that comes with this kind of power is still sadly reserved primarily for a precious few.

The founding team at Project Gnosis began with an idea: What would happen if all kids learn to code? The next thought was about implementation. After years of in-depth research, pilot projects, and after many trials and errors, a learning and teaching program was founded. It incorporated the many aspects embodied in the company's ethos, described in the four cornerstones below:

1. It takes a village to raise a child.
2. With great power comes great responsibility.
3. Education is a human right.
4. Give children fish, feed them for a day. Teach them to fish, feed them for a lifetime.

These four principals formed the basis to provide the necessary reform for future generations to preserve a sustainable future for humanity. Project Gnosis' research concluded that teaching kids about digital literacy, including how to code, and integrate technology intelligently, will build a better world and a safer society in which to live. Simply imagining how that would come to be was enough to keep the team spirit motivated and inspired to keep the proverbial ball rolling. What began as a small business idea, quickly shaped itself into a movement for innovative change in education to reflect the skill set necessary for kids now living in a world driven by tech.

The Project Gnosis research team learned categorically that an Ed Tech program designed to fit the analytic cognitive development process of kids would no doubt change the digital landscape for the better. It would generate an impact in almost every industry we could think of, including medicine, engineering, manufacturing, national security, agriculture and more. Scattered throughout the internet anyone can easily find amazing examples of how coding impacts the way we live.

Creating a technically fluid curriculum is a huge undertaking. It will take years to successfully bridge the gap and we need to take action now.

Look around. Anything electronic these days involves coding somehow. Somewhere in your home or office someone is likely logged into a smart device as you read this article. That being said, how many of them do you think can identify and understand what a CPU is? A microprocessor or microcontroller? What URL stands for? Understanding (at the very least) the basic mechanics behind what drives the world is important. Depriving kids from learning how to code and interface intelligently with technology is synonymous with human deprivation today.

Many of the greatest minds in science have postulated that the very essence of the universe is based on some form of mathematical algorithm. In other words, the physical world/cosmos of which we are a part is made possible by what is sometimes referred to as a kind of God Code [33]. Scientists are

working hard to hack into it. The institute CERN [34] is another scientific research facility heavily invested in finding out more about the nature dark matter.

Now more than ever, we need visionaries to see the BIG picture. In the IT industry money is just the tip of the iceberg in terms of relevance to the human condition. The emerging Tech Ed market however, is the iceberg itself. The fact of the matter is that capital gains derived from a technically fluid world will directly affect more than just the economy of the collective population. It will impact humanity on all levels. It is time to gather together forward-thinking, globally minded business developers, financial investors, academic advisors and concerned citizens alike, to promote a sustainable education system to positively impact humanity, and by default, all her industries.

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