

SPRINGBOARD NEWS

SPRINGBOARD INCUBATORS INC
PROVIDING TECHNOLOGY EDUCATION & OPPORTUNITY FOR ALL



Some glimpses of the great events in 2023.



SpringBoard Incubators Inc.
New Partnerships in 2023



2023 The Year In Review

We kicked off 2023 with a new and exciting partnership with Queens Public Library. Robotics, Drones and Arduino Engineering projects were taught to students at the various community libraries across the borough of Queens.

School Districts & CBO's Excited About Our NEW STEM Workshops in 2023

The year continued with our long-standing relationship in the Long Island school districts. SpringBoard instructors taught Engineering Test Technician workshops, Structured Cable, Social Media Specialist and Data Analyst workshops to students at Wyandanch High School. Robotics and Computer Engineering workshops were also taught at Wyandanch. Other schools that benefitted from our STEM workshops included Amityville Middle and High School where students learned Robotics and Animation.

We continue to provide exceptional services to Nassau Community College's Center of Excellence and Innovation (NCC CEI). The CEI and their Grant based programs includes Liberty Partnership Program (LPP), Science & Technology Entry Program (STEP) and GEAR UP for middle & high school students.

We ran a total of 26 workshops for the CEI at Uniondale High School, Sewanhaka High School, Westbury Middle School, Westbury High School and an enthusiastic an energetic Atkinson Intermediate School, and Dodd Middle School in Freeport.

Our autonomous and programmable drones workshop remains popular with the high school students that participated in the Liberty Partnership Program at Farmingdale State College in their Day of Service workshop.

This year, the students in the after school program at the Hispanic Counseling Center were treated to two new workshops. The students enjoyed assembling and flying drones through obstacle courses. They also enjoyed the new Animation workshops that were taught.

The Long Island LINKS Inc. NSBE Jr. Chapter students continues to shine in STEM. In their 5th year at SpringBoard, students ventured into engineering projects related to IoT (Internet of Things), smart homes and electrical engineering projects.

We added a new relationship with My Brother's Keeper (MBK), Valley Stream in partnership with the community-based organization call the National Restorative Union (NRU). We started off by providing an entrepreneurial workshop this Summer. We continued with STEM workshops in the Fall for students in the program.

The United Way of Long Island, Youth Build program provides workforce development opportunities for participants in need of job training. We are very proud of the work we are doing to support these young men and women in this population. We continue our strong ...

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... relationship by providing GED test prep and computer literacy training to prepare their students for the digital age.

We have contracted with the Town of Hempstead Department of Occupational Resources (DOOR) to provide skilled IT training for Engineering Test Technicians, Structured Cable Technicians and Data Analysts.

Aim High is a New York City community-based organization that we supported last year and continued that support this year by providing workshops for their Summer Internship program. We provided skilled training on Excel and PowerPoint and HTML programming for approximately 80 participants.

“... what is the secret to their success ..”

When asked, what is the secret of our success? Our Chief Executive said “We are grateful to have offered a diverse range of workshops this past year, each meticulously designed to foster skills in STEM, Entrepreneurship, and cutting-edge technologies. We have delved into the expansive realms of Artificial Intelligence, imparting knowledge that is at the forefront of innovation. Our journey has been marked by an array of specialized classes that have included immersive experiences with Drones, engaging storytelling through Animation, and the intricacies of 2D game design.”



Project Based Learning with Artificial Intelligence and Big Data

We have equipped budding professionals in the world of Tech with the expertise to navigate complex Database Systems, harnessed the predictive power of Machine Learning, and transformed raw data into compelling narratives with Data Visualization and Tableau. Beyond education, we have actualized our knowledge into tangible results, assisting our clients in revolutionizing their operations. We've crafted exceptional products leveraging Artificial Intelligence, developed applications that simplify processes, and invented devices specifically designed to streamline the management of pharmacy services in hospitals.

Animation & Digital Media

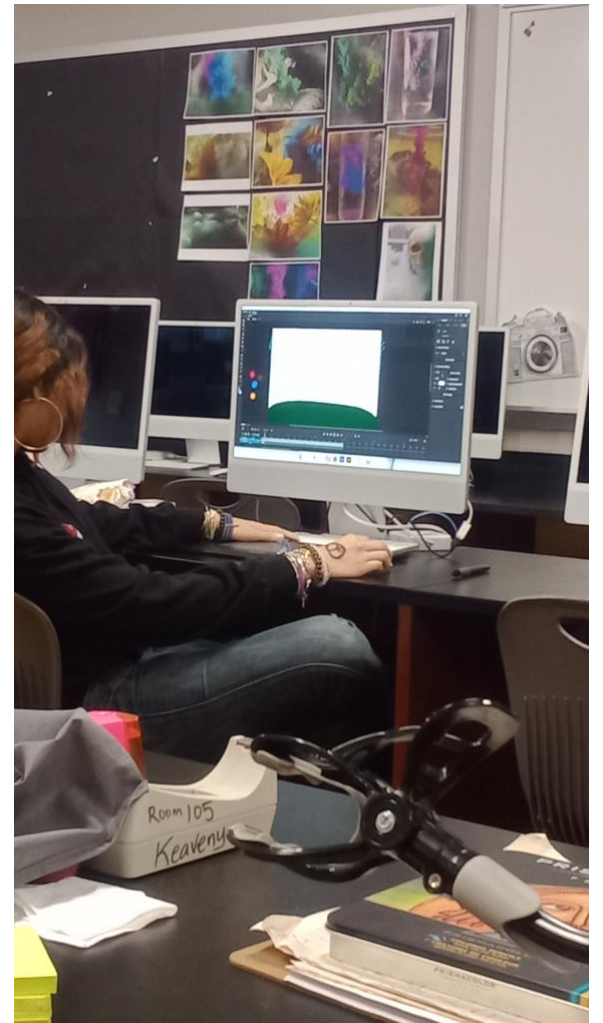
Springboard has expanded our portfolio of services to include animation and digital media workshops. The successful launch of the pilot included a total of 25 workshops which were held at Amityville high school, the Hispanic Counseling Center afterschool program, and Springboard Innovation Hub. In 2024, one of our imperatives is to expand our footprint into other school districts and community-based organizations. We will create a high-fidelity digital media and animation lab at our location.



**ANIMATION FOR
BEGINNERS**



We extended our “behind the scenes” pilot with Hempstead High school students participating in the Film & Television workshops. These students were exposed to techniques for sound, lighting, grip and editing short films.



Question Corner

Have you ever wondered where good ideas come from? Ask us! We will teach you how to:

**Innovate, Collaborate
& Create**

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**PIONEERING
HEALTHCARE
WORKFORCE**

**INNOVATIVE STEM
WORKSHOPS**

**A WORD FROM OUR
CHIEF EXECUTIVE
OFFICER**

SPRINGBOARD INCUBATORS INC.

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Biomedical Engineering Tech Training in Partnership with Northwell Health WORKFORCE DEVELOPMENT

AUTHOR: RACHIT KAPOOR

DATE: 12/14/2023

Our phenomenal year continued with a contract from Northwell Health to provide workforce development training in a niche inter-disciplinary area for Healthcare Professions. This area is referred to as Biomedical Engineering Technicians or as Northwell Health calls it today, Clinical Engineering Technicians. Not only was this a workforce development for highly skilled training but it also met the Diversity Equity and Inclusion initiative imperative for both of our organizations.

The curriculum was taught at a college-level standard by College Professors and top Graduate Students in BMET. The main topics included basic human anatomy, biomedical instrumentation, basic electronic and circuit analysis for medical devices, physiological instruments, digital computer networking and data communication. Students were also giving hand-on shop skills for biomedical equipment in a hands-on troubleshooting exercise at Northwell Facilities, repairing infusion pumps, telemetry, and monitoring devices.

The curriculum was rounded off with a deep dive into Diagnostic Imaging and Lab overview, equipping trainees with a comprehensive understanding of these critical areas. Lastly, Healthcare Tech Diagnosis & Repair sessions were instrumental in providing the cohort with practical skills to troubleshoot and maintain essential medical equipment.

“.. participants are fully prepared to install and maintain medical equipment.”

Upon completion, participants are fully prepared to install and maintain medical equipment. This program stands as a testament to our commitment to diversity equity and inclusion. Delivering professional training for a skilled workforce.



Dr. Lindo teaching the CET Cohort for Northwell



Students attending a practical session of BMET training.



Professional Development for Adults

BY RACHIT KAPOOR

At Springboard Incubators, we are excited to introduce our professional development program, uniquely designed under the visionary guidance of Dr. Lindo.

This program stands out for its project-based learning pedagogy (PBL), offering students not just theoretical knowledge but practical insights into the application of various technologies for innovation and product development.

In our Professional Development courses for adults, students will immerse themselves in a learning experience like no other. This hands-on approach allows them to tackle real-world problems using the technologies correctly applied to computing solution. As a result, they don't just learn to code or analyze data; they learn to build, innovate, and solve.



Adults in this program are building a tech portfolio of projects that it will springboard them to advance within the tech industry.

To learn more or to enroll visit our website:
<https://springboardincubators.org/professionals/>

Certificate Ceremony for the 1st Cohort CET

Photo with John Langone, VP CET Northwell Health, encouraging participants.



Bronx Bethany Tech and Engineering

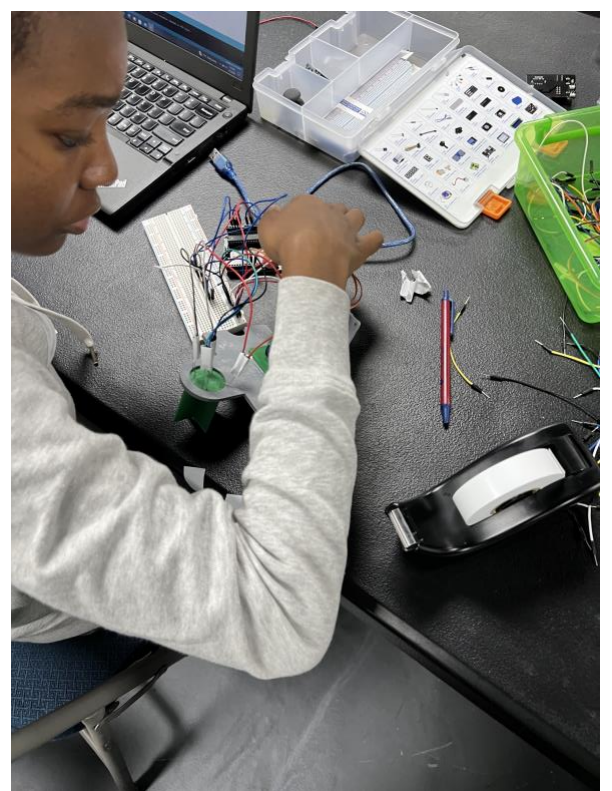
“It’s not what I want to be when I grow up It’s what I’m going to be” - NY State Senator Jamaal Bailey

SpringBoard Incubators has once again demonstrated its unwavering commitment to bring awareness in technology to underrepresented communities. Our summer Tech and Engineering workshops at the Bronx Bethany Church of the Nazarene allowed Middle and High School students from the community to immerse themselves in the foundational concepts of computer engineering and robotics. The workshops first introduced the students to the arduino microcontroller so that they can learn the intricacies of electrical and mechanical engineering and basic C++ coding. The students followed that up with a deep dive into robotics. Learning how to build a line follower robot that uses sensors, motors, precision of calibration, programmed to travel autonomously over a test course.

The turnout for these workshops was exceptional, with students participating actively, demonstrating their enthusiasm and commitment to learning. Both students and instructors enjoyed a richly rewarding experience, marked by moments of triumph as students applied their newfound knowledge. The success of these workshops at Bronx Bethany is a testament to SpringBoard Incubators' ability to inspire and cultivate the innovators and problem-solvers of tomorrow.



Figure 1: *“It’s not what I want to be when I grow up It’s what I’m going to be” - NY State Senator Jamaal Bailey*



Our tech students had the awesome experience connecting with Senator Jamaal Bailey on Day 3 of the workshops.

The State Senator for the 36th District which covers the North Bronx and Mount Vernon spent time encouraging our students and learning from our students the capabilities of autonomous robotics and drones. We are grateful for the support from Senator Bailey, and we trust his presence and advice has made an indelible impact on our students' current and future lives.



TOWN OF HEMPSTEAD – SYEP

Summer Intern Reflection on SpringBoard STEM Summer Camp

By: Kaitlyn Simpson
Date: Aug 2023

As I entered the workshop on Arduino Uno and the Blink Project, little did I know that I was about to embark on a journey filled with inspiration and wonder. The room was abuzz with excitement as the children eagerly gathered around the tables, their eyes sparkling with curiosity and anticipation. The prospect of assisting /teaching them about electronics and coding felt both thrilling and daunting. At the beginning, Lead Instructor Peiyan introduced the concept of Arduino Uno, explaining how it served as the heart of our projects and the gateway to the world of electronics. The children were attentive, absorbing every word as he guided them through the basics. Witnessing their enthusiasm and genuine interest reassured me that we were about to create something truly special. Next came the Blink Project – a simple yet pivotal task that entailed programming an LED to blink on and off. To the children it was a revelation. As they meticulously connected wires, input components, and wrote lines of code, I witnessed the birth of their inquisitive minds transitioning into young engineers. However, challenges arose along the way. Some children faced frustration when their LEDs refused to blink or the code produced unexpected outcomes. As an intern, I learned that patience and encouragement were vital. Guiding them through the debugging process taught me the art of instilling resilience and determination in young learners.

The true beauty of the workshop lay in the children’s creativity. As they mastered the basics, they started experimenting with different components and pushing the limits of their projects. Witnessing the emergence of unique ideas and innovative solutions filled me with immense pride. I realized that the workshop was not just about teaching technical skills, but also about fostering creativity and confidence in these budding minds. Moreover, the workshop underscored the power of collaborative learning. The children formed bonds, shared ideas, and helped each other troubleshoot. It was heartwarming to see how they leaned on one another, encouraging teamwork and camaraderie. Throughout the workshop, I also learned valuable lessons. I discovered the significance of adapting my assisting approach to suit each child’s learning style, ensuring that no one felt left behind. I witnessed firsthand that children thrive when given the freedom to explore and experiment, even if it leads to mistakes.

In conclusion, the workshop on Arduino Uno and the Blink Project was a transformative experience for both the children and me. It reminded me of the boundless potential that young minds possess and how important it is to nurture their passion for learning. By empowering them with knowledge and the confidence to explore, we lay the foundation for a generation of innovative thinkers and problem solvers. I left the workshop with a renewed sense of purpose, knowing that I had played a small part in shaping these bright minds and igniting their passion for technology.

YALE UNIVERSITY BOUND TWINS AT **SPRINGBOARD** INCUBATORS INC.

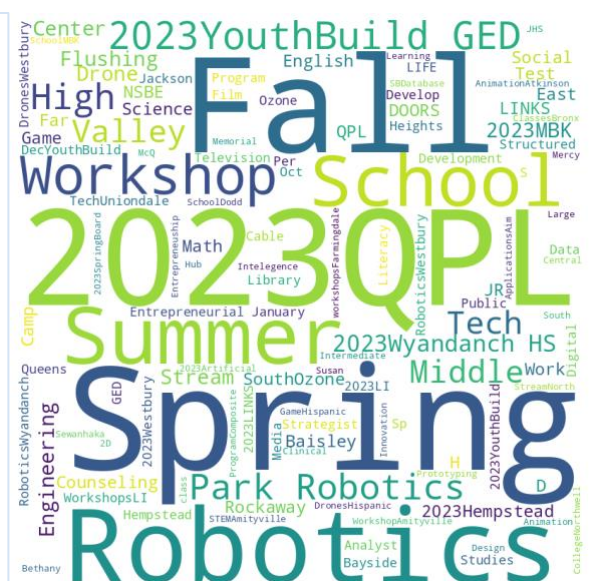
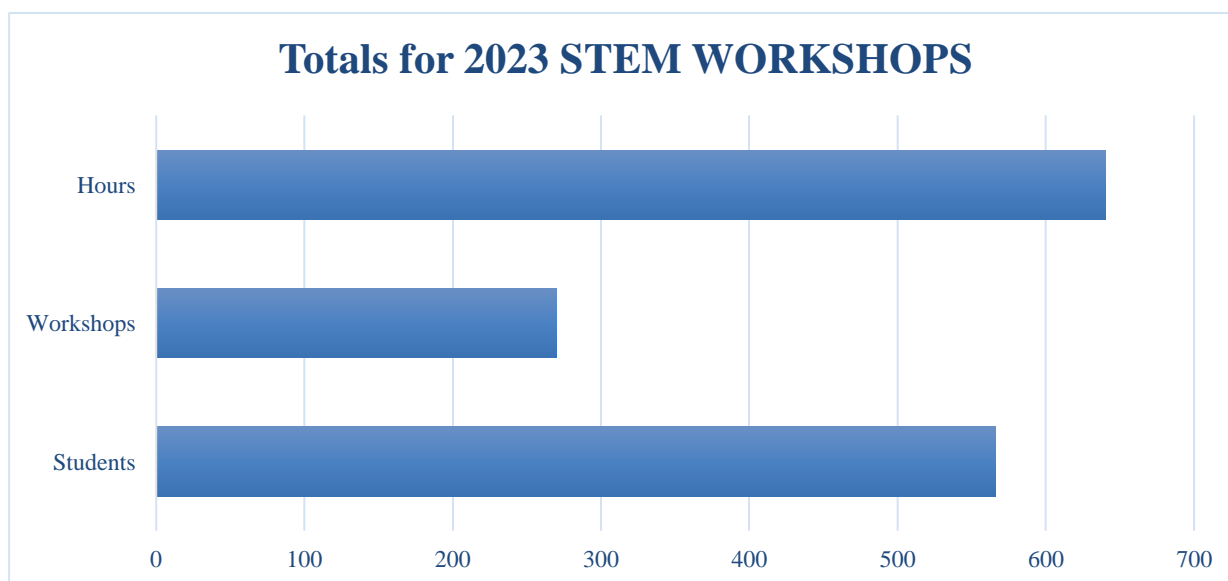


Gloria and Victoria are exceptional young ladies, and it was my pleasure to meet with them for lunch to hear about their dreams and future endeavors. They are the 2023 valedictorian and salutatorian from West Hempstead High School.

They are interested in studying Machine Learning and Artificial Intelligence at Yale University in the Fall. I offered to give them two hands-on workshops in AI / ML to prepare them before venturing off to school. We covered Linear Algebra, Conditional Probability applied to Bayes Rule, Support Vector Machines and Neural Networks. We used medical data to create predictive models for classifying different patient outcomes. They took to the subject matter with ease. I was truly impressed with these scholars.

My sincere congratulations to these young ladies. I will always cheer them on as they go forward to shine their light over the world. - scl

2023 SUMMARY METRICS



With over 566 students benefiting from 260 workshops over an unprecedented 640 hours.

A Word from Our CEO

DR. STEVEN C. LINDO

As the Chairman & CEO of Springboard Incubators Inc., it's with great honor that I lead our journey at the forefront of technological innovation. My path has been driven by a deep desire to bridge gaps in technology, education, and opportunity, and over the past three decades, this journey has been extremely rewarding.

My professional life has been richly layered with collaborations spanning students, universities, organizations, and customers. Each project, each interaction, has been an opportunity to deliver enduring value, and these experiences have been the cornerstones of my career. One of my core passions lies in project-based learning. The realms of Artificial Intelligence, Data Science, Cybersecurity, and Business Management are not just areas of expertise for me; they are avenues to impart wisdom and insights garnered from years of experience. I take immense pride in sharing these learnings with our students, employing real-world scenarios to unravel the complexities of the tech world.

Central to my philosophy is the belief that nurturing the next generation of tech enthusiasts is pivotal to crafting a brighter, more innovative future. The joy of seeing our students evolve, equip themselves with essential tools, and step into leadership roles in the industry is indescribable. Education, in my view, is a powerful tool to combat poverty and enhance the quality of life.

While acknowledging the challenges of this mission, I am steadfast in my belief that the right skills can empower individuals to forge their own destinies.

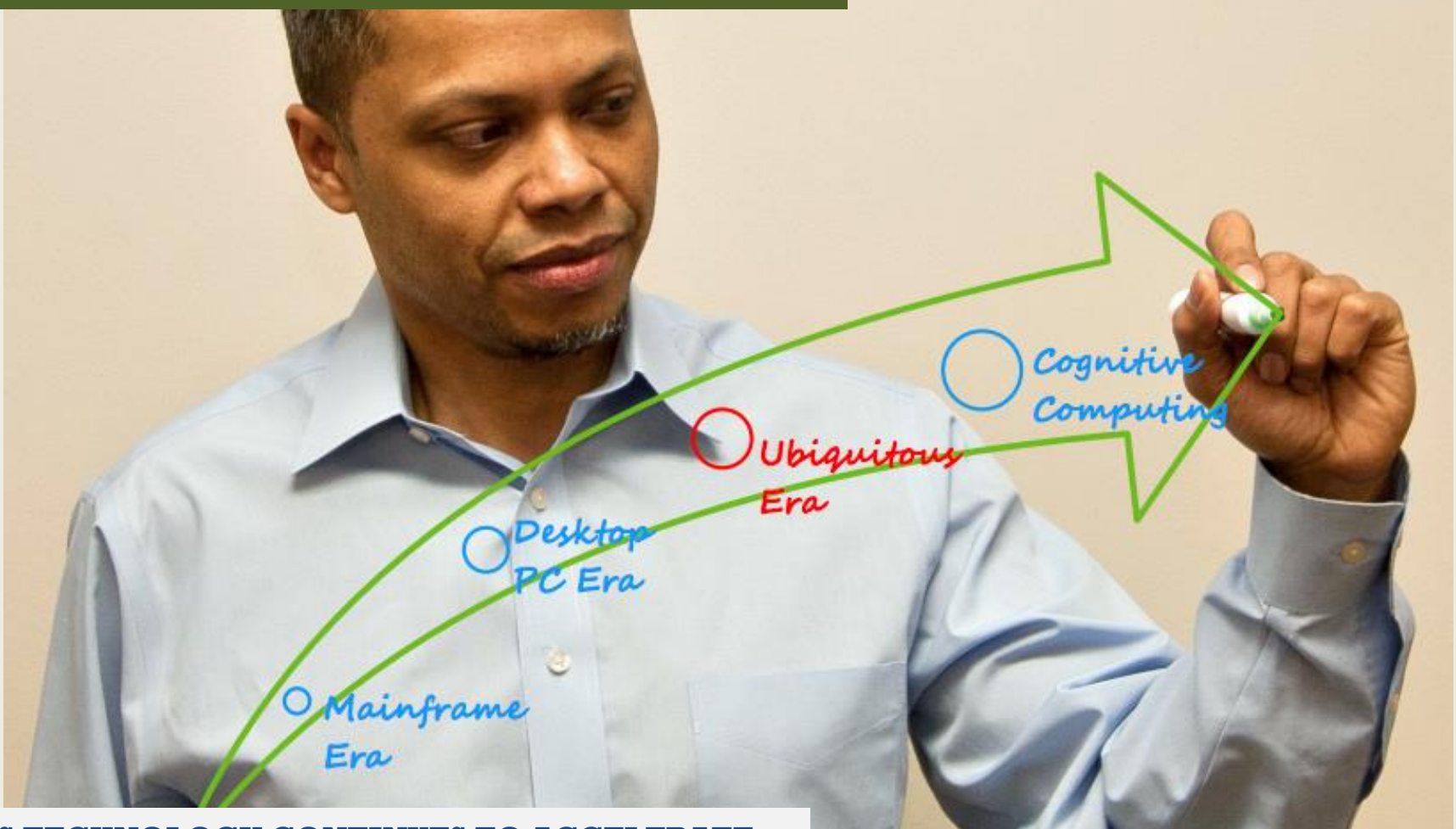
Driven by my passion for education and a firm belief in the potential of every student, I am committed to making a difference in the realm of technological education. Every day is an opportunity to impact lives, and I am grateful for the chance to contribute to shaping the future of technology and education.

The future is bright for our Incubator Tenants

As we move forward into 2024, we will shine the spotlight on the startups in our incubator. We will showcase our tenants as they go from prototype to production, leveraging our talented Software Engineering teams to design, develop and go to market with their products. These products range from social networking to medical innovations and brand analytics and insights.

May your 2024 be filled with the opportunity to learn, love and live in kind consideration of the underserved, underrepresented and forgotten. Take every opportunity to raise them up and share in our vision for a better world for all.

“WHAT DOES THE FUTURE HOLD FOR TECH”



AS TECHNOLOGY CONTINUES TO ACCELERATE

“This is only the beginning for us, and like any young person going through the maturation process they will experience successes and failures. It is imperative that when we fail at something, we should pick ourselves up quickly because it is not just time that will not wait on us, but also technology.”