THE BRIDGE GOLF FOUNDATION

VISION DOCUMENT
01 Introduction

02 The Vision

How does expansion advance and accelerate our mission?

How will the project address a need that is not being met in the current center?

How does the design facilitate, articulate and improve our capabilities to provide the programs and services to complete our mission?

03 The Business Plan

04 A Week in the Life

Early Mornings
Late Mornings
Afternoons
Evenings
Nights

05 Our Users

06 Index
“All I ever wanted to do was play the game.”

-Charlie Sifford
Introduction

The Bridge Golf Foundation is designing an expansion to extend the Foundation’s success by providing spaces to foster positive learning experiences to support STEM-based, project-based activities to fulfill its mission. The center will continue its work to promote school readiness and achievement, college and career success centered around the game of golf. The expansion will also increase the center’s reach into the community offering programs, activities and community events for families and youth in Harlem and across New York City to enjoy.

The Bridge Golf Foundation has engaged Margaret Sullivan Studio, G TECTS (Gordon Kipping) and Allison Milgrom to create the programmatic and design concept and oversee the proposed design and construction.

This document is the Program Vision, the first phase of the project. This will be shared with board, staff and stakeholders for feedback and consensus. The Concept Design, including interior design development and furniture selection will be completed in the next phase. Construction documents will be issued May 2018. Construction is expected to commence in Summer 2018. The expansion will open to the public in Fall 2018.

The Program Vision reflects the work of two consultants: Margaret Sullivan Studio and Allison Milgrom. Margaret Sullivan leads a nationally-recognized design firm with expertise in designing community-centric, education-centric and outcomes-based interiors for public institutions nationwide. The Studio has also been recognized for design excellence with national interior design awards. In 2017, the Studio was named one of Interior Design...
Magazine’s Rising Stars. The Foundation’s Annex space will be designed with characteristics of the Studio’s most successful projects that fulfill a similar mission, including DreamYard Art Center in the Bronx, CLOUD901 Teen Learning Lab in Memphis, TN, and the Learning Lab for the New Victory Theater in Times Square.

Allison Milgrom is a leading consultant in assisting educational institutions in developing successful revenue-generating community-based curriculum for STEM-based, project-based learning. With a background in science, technology, design and education, Allison’s expertise has been employed to create an expanded schedule for current and future Bridge Golf Foundation Annex participants.

The following document representing the Program Vision will enable an expanded and meaningful impact for the community that The Bridge Golf Foundation serves!
## Project Schedule

<table>
<thead>
<tr>
<th>DATES</th>
<th>RESPONSIBLE PARTY</th>
<th>PHASE/TASK</th>
</tr>
</thead>
<tbody>
<tr>
<td>JANUARY 1 - FEBRUARY 15</td>
<td>MSS</td>
<td>PROGRAMMING, VISIONING, CONCEPTUAL DESIGN PHASE</td>
</tr>
<tr>
<td></td>
<td>G TECTS</td>
<td>SCHEMATIC DESIGN PHASE</td>
</tr>
<tr>
<td>FEBRUARY 15 - MARCH 15</td>
<td>MSS</td>
<td>INTERIORS DEVELOPMENT PHASE</td>
</tr>
<tr>
<td></td>
<td>G TECTS</td>
<td>CONSTRUCTION DOCUMENTS PHASE I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ISSUED FOR LANDLORD APPROVAL - MARCH 1)</td>
</tr>
<tr>
<td>MARCH 15 - MARCH 31</td>
<td>MSS</td>
<td>FURNITURE &amp; FIXTURES PHASE I</td>
</tr>
<tr>
<td></td>
<td>G TECTS</td>
<td>CONSTRUCTION DOCUMENTS PHASE II</td>
</tr>
<tr>
<td>APRIL 1 - APRIL 30</td>
<td>MSS</td>
<td>FURNITURE &amp; FIXTURES PHASE II</td>
</tr>
<tr>
<td></td>
<td>G TECTS</td>
<td>BIDDING &amp; NEGOTIATION WITH CONTRACTORS (ISSUED FOR BUILDING PERMIT - APRIL 1; ISSUED FOR BID - APRIL 1)</td>
</tr>
<tr>
<td>MAY 1 - AUGUST 30</td>
<td>MSS &amp; G TECTS</td>
<td>CONSTRUCTION ADMINISTRATION PHASE</td>
</tr>
</tbody>
</table>
“If you are given a chance to be a role model, I think you should always take it because you can influence a person’s life in a positive light, and that’s what I want to do. That’s what it’s all about.”

-TIGER WOODS
Vision Statement

Since its founding in 2015, The Bridge Golf Foundation has used the game of golf as a vehicle to improve life outcomes for young men of color by blending golf with STEM, mentoring and character education to close gaps in achievement, learning and opportunity. The Bridge Golf Learning Center, a 2,400 square foot, state-of-the-art indoor facility opened in Harlem in May 2016.

The afterschool, STEM-based programs include science experiments, woodworking, digital fabricating, and many more engaging lessons and activities. However, the space was designed primarily for simulated golf and not to support the complex needs of the amazing activities these youth are engaging in at the center. As a result, skills and talents related to the extraordinary STEM-centered, project-based learning and character education the boys are already doing cannot be fully developed because the space is not designed to accommodate this learning.

The Bridge Golf Foundation is designing a space adjacent to the Learning Center that will be a visible storefront, active learning environment for the young men in the afterschool program, as well as be open days and weekends for the entire community. The extension will provide space for the complete STEM-centered learning cycle to be met for all of the youth’s passions, interests, aspirations and goals. Focusing on the game of golf as the platform for learning, the space will be designed around a series of “Academies,” providing individuals access to tools, technologies and talents to enable passions and develop 21st century skill sets. These will include: photography, videography and editing; maker workshops; new media and journalism; viewing and performance; gaming, design and development; coding; music and audio production; and visual design and illustration.

The space design and opportunities to improve programming will result in college and career
The Bridge Golf Foundation Expansion

readiness by providing opportunities for 21st century skill sets to flourish and places for mentoring, character education and service learning. Additionally, because many colleges are requesting portfolios, youth will have the access to tools to create high tech and media-produced portfolios with expanded content to include in their college applications.

It will also be adaptable and flexible for a variety of activities throughout the day. With the space extension, The Bridge Golf Foundation will be able to offer STEM programs to the community, extending impact exponentially. It will generate pride of place for Harlem residents, for youth in the program, and for donors and supporters.

It will also be designed to be scale-able. The design approach will be based around best practices, replicable for a larger space or another, national location. The expansion will also allow the Foundation to increase the number of young men that it serves. Presently, the afterschool program serves 20 young men who receive programming in golf, STEM, character education, college and career readiness and mentoring in a 2,400 square foot space. However, this expansion will have the capacity to serve 50 young men at one time over a three hour period.

This community facility will be the first of its kind in New York City to promote project-based, interest-based learning intentionally designed to foster 21st century skill sets, critical for success in this 21st century knowledge economy. It will rival facilities like the Tiger Woods Learning Center and other national leaders in STEM-focused learning, afterschool education and expanded learning.
Vision Diagram
Character Education

**Self-control**
Controlling your actions, thoughts, and feelings so they align with your goals

**Grit**
Passion and perseverance for long-term goals

**Curiosity**
Wanting to learn more. Showing interest, seeking novelty, and being open to new experiences

**Growth Mindset**
Believing we can get smarter through hard work and good strategies

**Gratitude**
Appreciating what others have done for us, and feeling moved to reciprocate

**Purpose**
Contributing to the well-being of others

**Zest**
Finding and sharing joy in what you do

**CHARACTER STRENGTHS!**
College & Career Readiness

Credit: Johnny Milano for The New York Times
“If I ever get bored with golf, I’m going to start over and play left-handed.”

-MICHELLE WIE
The Business Plan

With a goal of maximizing the usage of the space, this schedule proposes 89 hours of programming per week with a mixture of classes, professional programs and community programs that reinforce our mission through project-based learning and the game of golf. STEM programs in other parts of New York City are in high demand and are expanding rapidly, but none offer the unique programming of the Learning Annex all under one roof. A sample week of programming is shown for Monday through Sunday from 8am to 9pm each day. Regular class tuition ranges from $20 for a Minecraft Club to $50 for a Family Robot Club. Fees for professional programs, including team building and professional development are $60 per person. Special events such as birthday parties command higher revenues. To promote inclusion community programs are a more modest $5 to $15. These prices are informed by research on similar existing profitable programs in adjacent neighborhoods.
STEM learning is the anchor of the afterschool curriculum, emphasizing 21st century skills and college and career readiness. Students engage in collaborative projects where they gain transferable skills, such as communication and critical thinking skills, and develop a sense of civic responsibility. In our Golf Lab we can run three simultaneous activities with thirty boys split into three groups. Sample activity stations include coding a golf game, designing a golf course, and learning the physics of swinging a club. The after school program will not only train boys to develop workforce skills, but also prepare them to mentor and teach younger students through our Youthworks program. The boys will have opportunities to showcase their projects to the larger community and assist teachers in our for-profit programs.

The Learning Annex will also provide fee-based programming for all ages that connects science and math with golf. Programming will align with and reinforce the afterschool, project-based curriculum. Classes will target the following groups: Tinkering Tots up to age 3, Young Makers ages 4-6, Elementary Engineers ages 5-10, Learn to Code for ages 8-11, Web Design and App Development for ages 12-18, families, girls and adults. The same Golf Lab programming can run in for-profit programs. For example, a father and son can learn how to 3D print a golf club in one of these classes.

If minimum desired class sizes are met for all programs, projected weekly revenue is approximately $15,000 with an estimated profit of $6,650 after staff, materials, and estimated monthly overhead of $15,000. Achieving the high targets of class size would generate weekly profit of nearly $25,000 on revenue of $35,000, with larger classes in most cases requiring more staff at an average estimated doubled cost per week. These projections all assume one class per time slot. Dividing the larger space into two classroom spaces would allow for two simultaneous classes with as much as 100% incremental revenue.

The hiring plan includes a Program Manager and the existing digital media provider to build a website. The Program Manager will arrange for training of existing staff and will hire guest instructors. Current afterschool staff can serve as for-profit center staff as well, but the assumed one staff member per class increases to two if class sizes reach higher enrollments.
Program Manager
Job Description

The Program Manager is responsible for the development and delivery of STEM (Science, Technology, Engineering, Math) curricula, initiatives and scheduling. The Program Manager is also responsible for the implementation and oversight of daytime and evening classes and the afterschool program, including staffing and budgeting. The role includes outreach to local community organizations, schools, and businesses. The Program Manager must have strong leadership skills, excellent communication skills, and an understanding of age-appropriate activities for young children and adults.

Responsibilities

Project Management
- Develop daytime and evening classes and schedules for children and adults
- Write STEM curriculum lessons for children and adults
- Develop and coordinate STEM programs for the afterschool program
- Develop and coordinate special events, including community building events and student showcase events
- Develop, prepare, and monitor the budget; analyze and review financial data
- Research class topics and source guest speakers
- Coordinate school field trips
- Prepare presentations and proposals
- Develop profit sharing programs with community partners

- Collaborate with designers about the use of the space
- Collaborate with digital media managers to produce web content
- Oversee marketing initiatives, form relationships with local schools and merchants and collaborate with marketing staff for outreach

Community Building
- Cultivate relationships and manage partnerships with schools, local universities and other community partners
- Liaise with corporations regarding team building events
- Develop professional development programs for teachers
- Participate in community events as a representative and to promote programs
- Visit schools to build relationships with school leadership and teachers

Qualifications
- Seven to 10 years of program development experience
- Advanced degree in science and diverse work experience in STEAM education bridging art and science
- Advanced degree in design and an innovative, hands-on approach to project-based learning, inventing and building
- Familiarity with developing and implementing staff training, budget planning and management, and community and corporate partnerships. Excellent program management skills, with the ability to plan, organize, develop, and lead the implementation of projects
- Experience teaching youth and adults

Staff Supervision
- Interview and hire of staff
- Develop teacher training curricula and train staff
- Coordinate volunteers and interns

*Reference pages 62-63 for Bridge Golf’s Hiring Plan
“I think [golf] prepares you for life because it requires strategy. You have to think about how you’re going to hit the shot, how far it’s going to go, and what kind of impact you need to make with each swing.”

-ELIJAH OPOKU
The new Bridge Golf Foundation expansion facility will provide Harlem with an enriched learning environment activated by a wide variety of activities, programs, equipment, furniture and finishes. To encourage collaboration and foster creativity, the center will have very few walls and barriers, but rather an open floor plan for flexibility. It is in this environment that the Foundation’s users will engage in project-based learning in a variety of set-ups and spaces through making, collaboration, character development and critical thinking.

STEM learning is the anchor of the afterschool curriculum, emphasizing 21st century skills and college and career readiness. Students engage in collaborative projects where they gain transferable skills, such as communication and critical thinking skills, and develop a sense of civic responsibility. In the proposed Golf Lab, three activities can run simultaneously with 30 boys split into three groups. Sample activity stations include coding a golf game, designing a golf course, and learning the physics of swinging a club. The afterschool program will not only train boys to develop workforce skills, but also prepare them to mentor and teach younger students through the Youthworks program.

In the mornings, adults are invited to participate in professional development programs, seminars and maker’s classes. The center will also allow for program expansion to young children and elementary ages, offering activities such as Tinkering Tots and Elementary Engineers. Then in the evenings, adults and children alike are invited to participate together in a diverse array of projects and experiments with the opportunity to present their creations to the local community.

Credit: Johnny Milano for The New York Times
To create this desired learning environment, the expansion facility is divided into thirds: the “Living Room,” the “Maker’s Space” and the back of house. The Living Room encompasses the front third of the space, serving as a storefront to the center. The glass facade offers visibility, so the public can witness the exciting programs happening inside. Here the users will have a variety of cafe tables, comfortable seating and semi-private booths. The Living Room will host seminars, workshops and casual gatherings with plenty of space to hang out and chat with others as well as have one-on-one conversations.

Beyond the Living Room is the Maker’s Space, roughly 1,325 square feet of open area where students and community members can create, collaborate and get messy. As each day will offer different programs, a variety of furniture types and set-ups are necessary to accommodate the diverse activities. Activity tables, training tables, activity carts, task chairs and marker boards are a few key components that will enable programs to run smoothly and efficiently. Stacking furniture and furniture on casters will allow the space to transition quickly from one configuration to another.

STEM programs in other parts of New York City are in high demand and are expanding rapidly, but none offer the unique programming of the Learning Annex under one roof. With a goal of maximizing the usage of the space, the following “Week in the Life” schedule proposes 89 hours of programming per week with a mixture of classes, professional programs and community programs, reinforcing the Foundation’s mission of project-based learning and the power of golf. A sample week of programming is provided for Monday through Sunday from 8:00 am to 9:00 pm each day on the following pages.

Credit: Johnny Milano for The New York Times
Weekly Schedule

*See Program Index on pages 48-53 for more information.*
The Bridge Golf Foundation Expansion

EARLY MORNINGS
8:00 AM - 10:00 AM
ADULTS & PROFESSIONALS
35 PEOPLE

Activity Calendar

User Experience
In the early morning, users like Michelle* have the opportunity to use the Bridge Golf Expansion space to pursue and explore a wide range of hands-on activities, digital media, and instructional training. Adults are invited to visit the Bridge Golf Foundation to pursue professional development through tutorials, group meetings, seminars, and activity-based learning. They can also visit to learn a new computer program, participate in a coding boot camp, or tinker with new technologies like VR, 3D printing and drones. Michelle prefers to spend a couple of mornings each week at the center with Tonya, a coworker, before heading into work. She arrives a little early and grabs a coffee on her way in. She finds Tonya at the Meet & Greet area and they chat for a few minutes before heading to the Makerspace to develop their own websites. On their way out, they notice an advertisement for an interesting seminar next Tuesday. The two sign up for a seat and head to work together.

*Reference pages 42-43 for Michelle’s User Narrative
SET-UP 1

- HANG OUT BEFORE CLASSES
- GRAB COFFEE AND A BITE TO EAT
- MINGLE WITH FRIENDS

- SEMINARS
- LEARN ABOUT CURRICULUM DEVELOPMENT
- NEW TECH INSTRUCTIONS
- PROJECT-BASED LEARNING

- LAUNCH A DIGITAL PORTFOLIO
- BUILD AN APP
- DEVELOP YOUR RESUME

- 3D PRINTING
- PRODUCT PROTOTYPING
- SEWING CLASS
- POTTERY STUDIO
- LASER CUTTING
- WOOD SHOP WORKSHOP

- ONE-ON-ONE CONVERSATIONS
- SEMI-PRIVATE CONSULTATIONS
- DONOR WALL DISPLAY
SET-UP 2

- HANG OUT BEFORE CLASSES
- GRAB COFFEE
- MINGLE WITH FRIENDS
- BREAK OUT SPACE FOR SMALL DISCUSSIONS
- LARGE SEMINARS
- LEARN ABOUT CURRICULUM DEVELOPMENT
- LEARN ABOUT NEW TECH
- PROJECT-BASED LEARNING

- CODING BAR
- INDIVIDUAL PROGRAM DEVELOPING
- COLLABORATIVE PROJECT SPACE
- DESIGN A VIDEO GAME
- CREATE A WEBSITE
- BUILD A ROBOT
- CREATE AN ANIMATION
- LAUNCH DIGITAL PORTFOLIO
- WORK TOGETHER ON PROJECTS
- BUILD AN APP

- DONOR WALL BECOMES PRESENTATIONAL SCREEN

- STORAGE
- WORKROOM
- COMPUTER LAB
- ADULT MAKERSPACE
- MAKER’S SPACE
- LIVING ROOM
- TOILET
SET-UP 3

- Eat breakfast with colleagues
- Mingle with others
- Listen to speakers/seminar
- Meet other professionals/parents/community members

- Instructional workshops
- Computer classes
- Tutorials

- Hang out before classes
- Grab coffee
- Mingle with friends
**LATE MORNINGS**

10:00 AM - 11:00 AM

**CHILDREN UP TO AGE 3**

WITH PARENT/CAREGIVER

10 PEOPLE

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**Activity Calendar**

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
<th>SUNDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 AM - 11:00 AM</td>
<td>TINKERING TOTS I &amp; II</td>
<td>TINKERING TOTS III &amp; IV</td>
<td>LEARN TO CODE I</td>
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**User Experience**

Each week, several mornings at the center are devoted to toddlers and tinkering. Parents and caregivers can drop off their children with Bridge Golf instructors or stick around to participate alongside in project-based learning. The kids will learn through doing with hands-on activities such as LEGO, clay modeling and building blocks. For a snack time break, adults and children can use the Meet & Greet area to break and refuel. There is a designated area for crawling and monitored self-directed play with a magnetic wall and soft seating/flooring. Adults have the opportunity to meet other community members and foster meaningful relationships each visit.
The Bridge Golf Foundation Expansion

- Collaborative Project Space for Parent/Caregiver and Child
- Messy Space
- Painting and Coloring
- Play with Clay
- Hands-on activities for parent and child
- Instructor Lead Tinkering
- Play Magnets
- Learn About Bubble Science
- Learn About Rockets

- Place for Kids to Crawl
- Magnet Board
- Soft Seating
- One-on-One Conversations
- Reading Nooks
- Donor Wall

- Hang Out Before Classes
- Grab Coffee
- Mingle with Friends

- Storage
- Workroom
- Computer Lab
- Messy Makerspace
- Maker’s Space
- Living Room
- Tinker Lab
- Meet & Greet!

- Recording Booth
**Activity Calendar**

**MONDAY**
- ELEMENTARY ENGINEERS I & II
- YOUNG MAKERS I & II

**TUESDAY**
- ELEMENTARY ENGINEERS III & IV
- YOUNG MAKERS III & IV

**WEDNESDAY**
- SCIENCE AND TECHNOLOGY SHOWCASE
- BIRTHDAY PARTY YOUTH

**THURSDAY**
- WEBSITE DESIGN YOUTH
- ENTREPRENEUR YOUTH

**FRIDAY**
- APP DEVELOPMENT FOR IPHONE I YOUTH

**SATURDAY**

**SUNDAY**

Afternoons at the Bridge Golf Foundation expansion consist of a variety of stations and activities geared toward children from the ages of 4 to 10. Melanie* likes to visit the center on Tuesdays and Thursdays to participate in the Elementary Engineers program where she learns problem solving through hands-on activities. As she explores in the Experimental Lab, Young Makers are setting up close by with laser cutting equipment. And before her mom arrives from work, Melanie is able to complete her homework in the tutoring station and play a game with friends.

*Reference pages 42-43 for Melanie’s User Narrative*
The Bridge Golf Foundation Expansion

- SMALL GROUP DISCUSSIONS
- INFORMAL PRESENTATIONS AND PROGRAMS
- SAFE AND COMFORTABLE SPACE FOR DEEP TOPICS
- ONE-ON-ONE TUTORING
- SMALL STUDY GROUPS
- HOMEWORK HELP
- BRING IN INDIVIDUAL PROJECTS
- LAUNCH AN ONLINE PLATFORM
- PROGRAM A ROBOT
- RECORD A PODCAST, VOICE-OVER, OR SONG
- EDIT YOUR RECORDING
- PRODUCT DESIGN PROJECTS
- ROBOTS AND LEGO CONSTRUCTION
- WOOD SHOP ACTIVITIES
- LASER CUTTING/3D PRINTING
- EXPLORE SCIENCE WITH HANDS-ON PROJECTS
- LEARN PHYSICS
- WATER FAIR PROJECT DEVELOPMENT
- SEMI-PRIVATE DISCUSSIONS
- MENTOR MEET-UPS
- DONOR WALL
After school, the center fills with students from nearby schools. Upon arrival, the students have a snack and socialize while the instructors set up for today’s programs. The students divide into smaller groups and Jacob* heads to the informal classroom. Today, the instructor gives a brief lesson on statistics and how it is applied to the game of basketball. There is a group activity and Jacob collaborates with a partner. Then they are encouraged to move to the Group Discussion area to further develop their ideas. Jacob joins a table of three others on the sofa. They discuss the activity, propose some solutions and develop a conclusion together. Next the four teammates join a table at the Maker’s Space. Here, the group begins developing an app to calculate an athlete’s stats in real time. They plan to meet up for a game of basketball this weekend to test out their new technology!

*Reference pages 36-37 for Jacob’s User Narrative
• CASUAL MEETING SPACE
• HANGOUT SPACE BETWEEN PROGRAMS

• INSTRUCTIONAL LESSONS
• INTERACTIVE GROUP DISCUSSIONS
• VIDEO/PRESENTATION
• DEMONSTRATION SPACE

• BRING IN INDIVIDUAL PROJECTS
• RECORD A PODCAST, VOICE-OVER, OR SONG

• PROJECT-BASED LEARNING
• HANDS-ON ACTIVITIES
• BUILD ROBOTS
• PRODUCT DESIGN PROJECTS
• INTERACTIVE PROJECTS
• DESIGN CHALLENGE

• SMALL GROUP DISCUSSIONS
• PARTNER ASSIGNMENTS
• HOMEWORK STATIONS

• ONE-ON-ONE CONVERSATIONS
• READING NOOKS
• DONOR WALL
The work day is over and parents begin arriving at the center. A community program is beginning soon, so families come together for a quick meal using this time to catch up. After dinner in the front of the Center, parents, kids and community members make their way to the Maker’s Space to begin the evening activity. Tonight, the group will form three teams and compete in a robot-building competition. Some groups use the “Brainstorm Space” to discuss ideas and strategy while others begin assembling at the project tables. As projects complete, the groups bring their robots to the front to demonstrate and mingle. Passersby see the excitement and pop in to check out the new creations!
The Bridge Golf Foundation Expansion

- Bring in Individual Projects
- Record a Podcast, Voice-Over, or Song
- Family STEM Activities
- Community Night Activities
- Build Robots Together
- Take Home Finish Products
- Learn Concepts of Science, Mechanic, Engineering and Electricity
- One-on-One Conversations
- Instructor Consultation
- Mentor Meet-Ups
- Break Out Spaces
- Donor Wall

- Eat and Mingle
- Casual Group Discussions
- Brainstorming and Preparation
- Mingle and Tinker
- Food from Local Restaurants
- Share Out Space - Finish Work on Display
“We come to The Bridge and learn a lot of things, but when we’re outside of the Foundation, we are still representing what it stands for, even though no one is there to tell us what to do.”

-TARIQ WASHINGTON
Who Are Our Users?

Students • Families • **Golfers** • Young Men of Color • New York City Natives • **Passion-Based Learners** • Tweens • Engineers • **Social Entrepreneurs** • Civic Leaders • Community Activists • **Technology Experts** • Makers • Immigrants • **Mentors** • Friends • Teenagers • **Professors** • Millennials • Tinkerers • **Inventors** • Art Enthusiast • Actors • **Musicians** • Artists • Designers • **Athletes** • Scientists • Leaders • **Experimenters** • Vloggers • Directors • **Competitors** • Creators • Storytellers • **Bigger Pie Mentors**
Jacob
Eagle Academy Student

User Scenario

User:
Jacob is a 13-year-old who is new to the program. He lives in Harlem and likes living in NYC because of the multicultural environment. His mentors are the men in the family including his dad, uncles and his god-brother. He likes to play video games or draw during his spare time. He wants to have a successful career and he’s working hard to establish a future to become a marine biologist.

Play Personality:
1. Explorer - Loves to explore something new or different: physically, emotionally or mentally.
2. Artist, Creator - Enjoys making and creating things.

Curiosity:
He’s passionate about everything that interests him and likes to face problems instead of avoiding them. He wants to study hard and achieve his goals in life.

Desired Outcome:
He wants the Foundation to help society change the stereotypes for people of color.

Interests

- MAKER WORKSHOP
- NEW MEDIA JOURNALISM
- CODER WORKSHOP
- GAMING, DESIGN & DEVELOPMENT
- VIEWING & PERFORMANCE
**User Narrative**

Jacob is a new participant of the Bridge Golf Foundation and has enjoyed the comradery between classmates, tutors and instructors. He has built up confidence in his golf game, seeing positive results from 100 yards in. He enjoys the excursions to Dunwoodie, but seeing as he is a big video gamer, the simulation golf practice has been a lot fun, too. He is particularly fond of the connections between golf and the STEM programs because Jacob is an aspiring marine biologist. Math and science are key to this career path, so he looks for ways to combine these subjects with his interests, such as golf, video games, drawing and music.

In the new expansion annex, Jacob works with a group of students on a submission for the upcoming Water Fair. He and his friends are focused on a question: How can golf courses use water more efficiently? First Jacob and his team head to the computer lab to do some research on the topic. Once they have gathered statistics and any existing data, they move to the comfy seating towards the front of the center to share out and brainstorm. Before too long, they have moved on to the Maker’s Space to carry out some experiments of their own. Jacob works with his hands to test water absorption with a piece of sod grass as his friend Mark records on his iPhone. The two head back to the computer lab to edit their video before the day is over. The group will reconvene the next day to continue their research.

**Use**

- **Programs & Services**
  - Afterschool Design Challenge
  - Afterschool Golf Lab
  - Afterschool Maker’s Space
  - Entrepreneur Youth
  - Intro to 3D Printing
  - App Development for iPhone
  - Minecraft Club
  - Robotics
  - Family Robot Club
  - Website Design Youth
  - College and Career Readiness
  - Mentoring Program

- **Spaces**
  - Maker’s Space
  - Living Room

- **Furnishings**
  - Comfortable seating
  - Varying size tables

- **Technology & Equipment**
  - Latest game tech
  - Laptops

- **Outcomes**
  - Inspired mindset
  - 1st family member to go to college
Elijah
Eagle Academy Student

User Scenario

User:
Elijah is a 12-year-old who lives with his parents, brother and sister. He is the eldest among his siblings. He loves learning golf because he thinks it prepares you for life by requiring strategy. In the future, he wants to be an actor, so people can see who he really is. He loves going on trips and meeting new people and interacting with the other kids in the program.

Play Personality:
1. Explorer - Loves to explore something new or different: physically, emotionally or mentally.
2. Kinesthete - Someone who loves to move and push their body to see what it can do.

Curiosity:
He enjoys the inspiration from others around him and wants to develop his way of thinking to give him a positive effect in life.

Desired Outcome:
Understanding fluent relationships, always searching for his own path and wants to be a successful person.

Interests

- Maker Workshop
- New Media Journalism
- Music & Audio Production
- Gaming, Design & Development
- Photo, Video & Editing
Elijah’s favorite part of participating in the Bridge Golf program is the friendships he has built with other boys his age over the game of golf. Although he aspires to be an actor one day, Elijah recognizes how the game of golf is impacting his future career. The key to the game is strategy, he says.

Elijah is particularly interested in the broadcasting technology the annex provides. During the Afterschool Maker’s Space time, he grabs his friend Antonio, and the two head to the Recording Studio to produce their own podcast. Elijah is a big fan of the NY Giants and wants to record and publish his own analysis of the on-going season. Antonio is interested in producing the soundtrack for the production, so the two split up their duties accordingly.

Each day, Elijah spends time in the Recording Studio until the content is complete. He then uses the computer lab for editing and mixing with Antonio’s music tracks. After a week, the two have a finished product. They consult an instructor on how to launch their podcast so their friends can stream.
Noah
Eagle Academy Student

User Scenario

User:
Noah is 16 years old and lives in the Bronx with his parents and two older sisters. He considers his parents the most important and influential people in his life. He has a variety of business ideas he wants to achieve later in life including entrepreneur, gaming company CEO, restaurants, real estate and owning a sneaker store. His favorite part of the Bridge Golf Foundation is the character education. He relates to the topics a lot, mostly about current events and what’s happening in the world.

Play Personality:
1. Competitor - Loves competitive games with rules and likes to play to win.
2. Director - Enjoys executing, planning. Loves organization.

Curiosity:
Winning, success, belief in the future. Loves playing games, driven by passion. Always searching for his own path and wants to be a successful person.

Desired Outcome:
Truly understanding problems/issues and the willingness to solve them.

Interests

- Maker Workshop
- New Media Journalism
- Coder Workshop
- Gaming, Design & Development
- Visual, Design & Illustration
User Narrative

Noah, being a long-time participant in the Bridge Golf Foundation afterschool program, has anticipated the facility’s vision of expansion. His golf game significantly improved over summer, although he is now feeling a little rusty with the break he took from practicing during the holidays. Noah looks forward to getting back to the Bridge Golf center after school to improve his swing and spend time with his friends. With the opening of the expansion facility, Noah learns he now has a space to paint and produce artwork in the Maker’s Space! Not only does he have the space, but he can also take part in programs like the Afterschool Design Program and maker workshops that facilitate art projects!

Noah meets with his mentor, Paul Ferraro, every other Thursday at the new center. The two claim a booth in the living room where they can have a little privacy for discussion. Noah aspires to make the principal’s honor roll this semester to continue his streak. His mentor gives some good advice and encourages Noah in the areas where he is struggling. Noah expresses his interest in a recent entrepreneur class and Paul recommends a book that would complement the course.

As Paul heads out, they schedule their next meet-up up in two weeks. In the meantime there is a community project night coming up and the two decide to sign up together!
Michelle & Melanie
Newcomer

User Scenario

User:
Melanie is a 10-year-old girl who lives in Harlem. Her mother, Michelle, is a single mother working long shifts to support her family. Melanie loves making things and has very crafty hands. Michelle wants Melanie to enroll in the makers program to let her freely express her creativity. She is a soft-hearted child and easily gets along with people in new environments.

Play Personality:
1. Explore - Loves to explore something new or different: physically, emotionally or mentally.
2. Kinesthete - Someone who loves to move and push their body to see what it can do.

Curiosity:
She likes to read and loves to create and express herself in drawing/doodling. She’s very visual and loves to see the world! She wants autonomy in terms of her experience. She longs to inspire others.

Desired Outcome:
She desires to be mentored and to make a living through her art. She wishes the program pushed her limit to help her gain new experiences.

Interests

- MAKER WORKSHOP
- NEW MEDIA JOURNALISM
- VIEWING & PERFORMANCE
- PHOTO, VIDEO & EDITING
- VISUAL, DESIGN & ILLUSTRATION
User Narrative

Melanie attends quite a few programs at the Bridge Golf Learning annex, but her favorite is Community Night. When her mom has a night off, the two attend an evening workshop at the center which is always a treat. Melanie loves to show her mom that she knows her way around the Maker’s Space, volunteering to demonstrate how to use each piece of equipment. Michelle values this time with her daughter and is impressed by her knowledge! The two team up with another family at a project table in the Maker’s Space. Tonight they are working in groups to create catapults. At the end of the night, there will be a competition to see whose catapult can throw an object the furthest!

Melanie draws up a design and the team critiques the plan together. They make a few tweaks, but ultimately agree upon the drawing and get to building. Melanie wanders around to compare her team’s progress with their competitor’s and realizes everyone’s design is very different! The end of the night is approaching so she rushes back to add any finishing touches.

Melanie, Michelle and the rest of the team take their catapult to the designated area for testing. Melanie is given the liberty to operate the device and the team comes in second! She is very pleased and can’t wait to take the catapult home and play some more.

<table>
<thead>
<tr>
<th>Programs &amp; Services</th>
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<tbody>
<tr>
<td>• Elementary Engineers</td>
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<td>• Young Makers</td>
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<td>• Girls Robot Club</td>
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<td>• Team Building Event</td>
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<td>• Community Night</td>
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<td>• Family Robot Club</td>
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<td>• Learn to Code</td>
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<td>• Minecraft Club</td>
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<td>• Mentoring Program</td>
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<td>• School Field Trip</td>
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<td>• Living Room</td>
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<td>• Varying size tables</td>
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<th>Technology &amp; Equipment</th>
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<td>• EV3 LEGO®</td>
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<tr>
<td>• What a 3D printer is and does</td>
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<tr>
<td>• Basic STEM concepts</td>
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</table>
Liam & Crista
Newcomer

User Scenario

User:
Liam is a 5-year-old who is passionate about learning and getting into everything. He lives in Harlem with his grandmother, parents and his older sister, Crista, who is in 2nd grade. He looks up to his sister who likes to take on a motherly role toward her little brother. The two attend Elementary Engineers during the week and enjoy working and creating together! Liam’s favorite activity involves creating miniature cities with LEGOs.

Play Personality:
1. Artist, Creator - Enjoys making and creating things.
2. Explore - Loves to explore something new or different: physically, emotionally or mentally.

Curiosity:
Perceives and learns through touching. Not afraid to cross boundaries if he sees something of interest.

 Desired Outcome:
Taking home created things. Finished products from his own two hands are a source of pride. Desires to show off his work.

Interests

MAKER WORKSHOP
GAMING, DESIGN & DEVELOPMENT
VIEWING & PERFORMANCE
VISUAL, DESIGN & ILLUSTRATION
The Bridge Golf Foundation Expansion

User Narrative

Liam’s favorite days of the week are the days he visits the Bridge Golf Learning Center annex. His room is filled with crafts and projects he created at Elementary Engineers. These include clay models, a motorized Lego creation and even a 3D printed golf ball! When he arrives at the center this week, he finds out the class will be building robots in pairs. Liam wants to work with his sister who is happy to collaborate. She goes to collect the supplies as Liam daydreams about their future creation.

This project takes a few days to complete. Liam finds this a little frustrating as he wants to take his robot home right away to play, but Crista explains the process and how important it is to be patient. The two are hard at work each day in the Maker’s Space. With the supervision of an instructor, the pair are using activity tables, activity carts, laptop stations and various technologies available. Finally, at the end of a long hard week, Liam and his sister have a completed robot! They spend the rest of their Friday afternoon playing with their creation in the Living Room with their other classmates. Before leaving, the instructor organizes a group discussion about how robots are made and can be used in everyday life. Liam is inspired by the exercise and develops a new interest in robotics.

Use

Programs & Services
- Elementary Engineers
- Young Makers
- Rube Goldberg
- Community Night
- Minecraft Club
- Robotics
- Family Robot Club
- Website Design Youth
- Mentoring Program

Spaces
- Maker’s Space
- Living Room

Furnishings
- Variety of seating
- Activity tables

Technology & Equipment
- Gaming equipment
- Laptops

Outcomes
- Language readiness
- Basic geometry and addition
- Kindergarten readiness
Sabrina
Newcomer

User Scenario

User:
Sabrina is a 15-year-old girl from a Hispanic family who lives with her parents and her brothers. Her favorite subjects in school are math and physics. She loves surrounding herself with new people in new environments. She is always down to try new things no matter what it is. Her high level of curiosity toward new material pushes her forward. She wants to be a software engineer when she grows up.

Play Personality:
1. Explore - Loves to explore something new or different: physically, emotionally or mentally.
2. Kinesthete - Someone who loves to move and push their body to see what it can do.

Curiosity:
She likes to read and loves to express herself.

 Desired Outcome:
She desires to be mentored and to make a living through what she really wants to do and enjoy. The Foundation opened opportunity and potential that she didn’t know existed.

Interests
- Maker Workshop
- New Media Journalism
- Viewing & Performance
- Photo, Video & Editing
- Visual, Design & Illustration
User Narrative

Sabrina has always had a passion for technology. Starting at a very young age, she has enjoyed tinkering with cell phones and computers. So when she finds out about this cool new maker’s space down the street, she is ecstatic! Immediately, Sabrina signs up for the Girls Robot Club and Website Design for Youth. She gets involved and before long, has several new friends. They tell her about another program at the center that takes place after school and is specifically geared toward making! Sabrina signs up and attends the following week.

Throughout the school year, Sabrina builds software, records videos, makes 3D models, and learns the basics of computer coding. The center helps her develop passions for which she previously had no outlet. Not only does she develop her skills, but she meets other girls her age that have the same interests! The Bridge Golf Center annex becomes her afterschool and weekend hub.

An instructor asks Sabrina if she has any interest in sports. She says she has never been too athletic but loves trying new things. He invites her to the golf lab where she tries putting for the first time. It comes more naturally than she expected! Soon she is not only coming to the center for making, but practicing her golf game as well.
Appendix

01 Program Descriptions
02 Hiring Plan
# Program Descriptions

<table>
<thead>
<tr>
<th>Description</th>
<th># Sessions</th>
<th>Per Session</th>
<th>Total Tuition</th>
<th># of Students</th>
<th>Total Revenue</th>
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<td>39</td>
<td>117</td>
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The Bridge Golf Foundation Expansion

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### The Bridge Golf Foundation Expansion

#### Engineers IV
- Young Makers III
- Young Tots II
- Tots II
- Tinkering Tots

#### Engineers III
- Minecraft Coding for iPhone
- App Development for iPhone

#### Engineers II
- Coding II
- Minecraft
- Adult Design II
- Website Learn to process. Students will create and take home interactive projects and 3D and engaging curriculum. Students will work together to design and printed designs.

#### Young Makers III
- Home School Groups: Robotics
- Science concepts such as bubble science and rocket flight. In this class both Parent/Caregiver & Child up to age 3

#### Young Tots II
- Tinkering Tots
- Science concepts such as bubble science and rocket flight. In this class both Parent/Caregiver & Child up to age 3

#### Elementary
- Youth
- Adult
- Design II
- Home School Groups: Robotics
- Includes various hands-on projects. Projects include lava lamps, boats, catapults and color spinners. Kids are introduced to science and engineering through various hands-on projects. Projects include mechanics and physics to understand how and why things work the way they do. Students will learn problem solving skills and the product design process. No prior experience necessary.

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## The Bridge Golf Foundation Expansion

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The Bridge Golf Foundation (Learning Annex)

The Bridge Golf Foundation (Learning Annex)

The Bridge Golf Foundation Expansion

Engineers IV

Elementary

Engineers II

Makers IV

Makers II

Tots IV

Tinkering

Coding I

Adult II

App

App Development for iPhone

Website Design II

Adult

Website Design

Tots I

Tinkering

Learn to Code I

Home School Groups: Robotics

process. Students will create and take home interactive projects and 3D construction materials and recyclables. Use the principles of engineering, mechanics and physics to understand how and why things work the way they do.

Young Makers: Robotics

Students will enjoy experimenting with science while they learn to build playful motorized creations with LEGO®.

Minecraft Club for ages 8 and up

Students will learn the fundamentals of Java™ programming, while coding their own Mods, skins, blocks, mobs, and other items. Java is the most widely-used programming language in the world, and students will learn instantiation, methods, parameters, loops and how to fix bugs as they arise. No prior experience necessary.

Minecraft Club for ages 8 and up

Students will meet like-minded peers and share their mods with friends.
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<td>Students will brainstorm business ideas, create a business plan, calculate a budget, devise a marketing plan, practice a presentation and pitch their idea to potential investors.</td>
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<td>Daily activities will use technology like 3D printers, circuits, computers and more. This week: Toy Lab: design your own board game and 3D printing the game pieces</td>
<td>Electricity and Circuits: learn about simple circuits. Students will make their own version of the HEX bug and experiment how they navigate mazes, Coding: program several sports games, including tennis and golf matches and add backgrounds, characters, sound and speech blocks. Golf Lab: physics of golf including analysis of swing in correlation to golf club size and shape, 3D print your own golf club or design a golf course Design Challenge: design and build a pinball machine</td>
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<td>Parent/Caregiver &amp; Child for ages 5 and up Families come to the center to build robots together that they can bring home. Families will learn concepts like mechanics, engineering and electricity while having fun. We will have on hand several robot kits, gears, motors and more to play with for inspiration.</td>
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<td>Girls Robot Club for ages 7 and up Girls come to the center to build robots that they get to bring home. Students will learn concepts of mechanics, engineering and electricity while having fun. We will have on hand several robot kits, gears, motors and more to play with for inspiration.</td>
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<td>Educators from around the city come together to learn from experts in the STEM field on curriculum development and ways to engage children in the classroom with innovative STEM activities and lesson plans they can bring back to their schools. Educators will learn-by-doing and gain exposure to cutting-edge technologies like 3D printers, coding, and electronics. Educators will be able to bring back their classes to our center for field trips. Some topics we will cover include:</td>
<td>• Project-based learning • Product Design Process • Teaching math through games • Computer programming</td>
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| Educators from around the city come together to learn from experts in the STEM field on curriculum development and ways to engage children in the classroom with innovative STEM activities and lesson plans they can bring back to their schools. Educators will learn-by-doing and gain exposure to cutting-edge technologies like 3D printers, coding, and electronics. Educators will be able to bring back their classes to our center for field trips. Some topics we will cover include:  
  - Project-based learning  
  - Product Design Process  
  - Teaching math through games  
  - Computer programming |
| **Parents Night Out**               | 1          | 50                  | 50            | 5             | 250          |
| Parents Night Out  
  This Friday, drop-off your child for a night of exploring, building, and playing while learning engineering and math concepts while you go out on a date. |
| **Intro to 3D Printing**            | 1          | 65                  | 65            | 5             | 325          |
| Intro to 3D Printing for all ages  
  This 3-hour beginner class is an introduction to the 3D software you can use to create your own designs and an overview of 3D printing. You will experience a 3d printer in action, learn about printing materials and take home a 3D printed object. |
| **School Field Trip I**             | 1          | 15                  | 15            | 20            | 300          |
| School Field Trip  
  We offer hands-on inquiry-based science, math and technology workshops, which are correlated to New York City and New York State Standards. Our makerspace is a learning environment where school groups and teachers can tinker, design and create together. Everyday materials are reused in exciting ways that encourage experimentation and collaboration to develop 21st-century skills. |
| **School Field Trip II**            | 1          | 15                  | 15            | 20            | 300          |
| School Field Trip  
  We offer hands-on inquiry-based science, math and technology workshops, which are correlated to New York City and New York State Standards. Our makerspace is a learning environment where school groups and teachers can tinker, design and create together. Everyday materials are reused in exciting ways that encourage experimentation and collaboration to develop 21st-century skills. |
| **Adult Makerspace I**              | 1          | 39                  | 39            | 10            | 390          |
| Adult Makerspace  
  Bring in a project of your own to work on in our fully-equipped space or follow a weekly series of topics including designing a video game, creating an interactive website, building a robot or creating an animation. |
| **Adult Makerspace II**             | 1          | 39                  | 39            | 10            | 390          |
| Adult Makerspace  
  Bring in a project of your own to work on in our fully-equipped space or follow a weekly series of topics including designing a video game, creating an interactive website, building a robot or creating an animation. |
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The Bridge Golf Foundation Expansion

### Community Night
Join us to mingle and tinker with our local community including people of all ages. There is something for everyone with open experimentation with materials and technologies along with structured activities and speaker presentations. Some upcoming activities include inventing a game you build out of cardboard, programming robots to navigate mazes, using Makey Makey kits to control Scratch games you code yourself. We will partner with local restaurants to provide food for purchase.

This week we have a guest speaker on Biorobotics who will show examples of robots that emulate biological organisms. After a brief discussion, you will play with materials and Lego WEDO kits to produce designs based on nature.

### Breakfast Bytes
Start your day energized and full of new ideas and connections. Enjoy breakfast and the opportunity to mingle with other attendees. These meetings are a mix of networking and speaker presentations.

### Science and Technology Showcase
We invite the community in to see the amazing work that we do here at the center. Students enrolled in our programs will showcase their work and will also run workshops for attendees. Families can participate in STEM activities such as Domino Demise, where they will learn about the potential energy stored in dominoes, the physics of how dominoes fall, different set up patterns and how the measured distance affects the speed of falling.

### Team Building
Bring your group to our space for fun and unique team events. Your team will collaboratively design, build and decorate a collection of robots, and learn about circuitry and robotics. After a friendly robot battle, each person can take home the robots they created. We can accommodate parties of 5-30 people. Events typically run from 6:30-8:30 pm. We can provide food at an additional cost or you can bring your own.

### Special Events + Birthday Parties
Adult Birthday Parties Birthday party topics to choose from include Science, Engineering and technology partner with restaurants.

### Special Events + Birthday Parties
Youth Birthday Parties Birthday party topics to choose from include Science, Engineering and technology partner with restaurants.
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## Hiring Plan

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<td><strong>Hiring Plan</strong></td>
<td>One staff member to oversee adults and children from 8-3</td>
<td>One staff member to teach Professional Development and children 8-3</td>
<td>One staff member to lead Breakfast Bytes and School Field trips from 8-3</td>
<td>One staff member to teach Website Design and App Development and children from 8-3</td>
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<td>One staff member to teach Scratch, Minecraft and Entrepreneur from 6-9</td>
<td>One staff member to teach Adult Makerspace from 6-9</td>
<td>One staff member to lead Community Night from 6-9</td>
<td>One or two staff members to lead the Team Building event from 6-9</td>
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<tr>
<td>One staff member to teach Website Design and App Development and children from 8-3</td>
<td>One staff member to teach Professional Development and other courses</td>
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<td>One or two staff members to run Parents night out from 6-9</td>
<td>Two staff members to run Science Showcase and Parties from 1130 to 9</td>
<td>Program Manager and Digital Media Provider</td>
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We’d love to hear from you!
cheers@margaretsullivanllc.com
646.785.9841