Amplifying Our Impact

2017 Bridge Program Report

THE PAST FOUNDATION
Access Through Innovation
Welcome!

In 2017 PAST Foundation’s Bridge Programs ran for the first full academic year in our new facility -- and it was a great year. We amplified our student impact by 39% throughout the year with some creative and engaging new programs running alongside some of our most popular offerings. We achieved this by adding flexible programming options that occurred during the academic day, by expanding our traditional summer programs, and by introducing unique, STEM-focused after school programs.

One of our core strengths at PAST Foundation is taken directly from our name: Partnering Anthropology with Science and Technology. PAST is about Partnering and we easily see the connection points between schools, businesses, and the community. More importantly, we make those connections happen.

In previous years, PAST Foundation has been an innovator in designing and developing high quality informal education opportunities in the field. Our goal in 2017 was to take advantage of our new 32,000 sq ft PAST Innovation Lab (PIL) facility and really expand our impact on informal education. We increased the number of programs held on site and in turn reached an enrollment of over 150 students, up 25% over 2016.

We set out in 2017 with five goals to amplify:
1. Our Bridge Programs impact.
2. The number and variety of our informal education Bridge Program events by taking advantage of our new home in the PAST innovation Lab.
3. Our commitment to applied STEM and design thinking with informal educational opportunities.
4. Our commitment to robotics excellence and innovation.
5. Our programs to reflect greater diversity, equity, and impact in programs, students, and topics at the local, state, regional and international level.

We renewed our focus on documentation of the field experience via Principal Instructors (PI) and the consistent application of both pre-and-post assessment to assess engagement and impact.
The new Innovation Lab allowed us to launch a wide variety of innovative and engaging informal education programs throughout the year. During the 2016-17 academic year, PAST’s Bridge Programs team held 37 new, returning, and innovative programs. This number represents over one-third of all Bridge Program offerings since 2005. Some of these programs included the popular Star Wars and Shakespeare program hosted by CATCO, to multiple robotics, LEGO Robotics, and FIRST robotics camps to the wildly popular Minecraft Mathematics series. Several camps were designed, targeted and modified to be of specific interest to young girls in STEM. Some of these camps were hosted with the intention of advancing the PAST’s #GirlsWhoLead campaign: LEGO Robotics for young girls and Underwater ROVs for young girls.

In the fall of 2016 and spring of 2017 PAST Foundation began hosting a series of popular “Maker Mania” events at PAST Innovation Lab, and at Otterbein University’s The POINT. Otterbein was eager to venture into the K-12 informal education environment and saw PAST’s popular Maker Mania events as the perfect opportunity to collaborate. Ultimately, PAST Foundation ran 10 Maker Mania events between PIL and The POINT. These regularly occurring Maker Mania events allowed elementary and middle school students to explore and create in many STEM-related areas. We also helped organize and run the Cardboard Challenge in association with the Columbus Museum of Art at 9 area elementary and middle schools. Estimated participation in this event exceeded 2,000 students. We also supported and helped organize STEM Rocks the Box for the 9th year.

We applied our design thinking strategies and incorporated research and development into our after school program the Innovators Club (IC). With this cohort of middle school students we were able to think of them as pioneers in the after school programming market. As we developed and delivered new challenges and activities we encouraged our IC pioneers to provide feedback on each lesson, activity, and demonstration in order to refine and improve our own work. We found that by giving the students the freedom to critique the programs they were engaged in and effectively communicated about their learning and the benefits of each program or activity.

We improved program consistency to provide informal educational opportunities that would prove to be positive examples of measurable student growth. Through implementation of our PI Packet and documentation along with pre-and-post assessments for each program we have improved our student metrics and better planned and managed programs. We work to design our summer programs and challenges around an authentic problem that our industry partners have identified in their own work. Our renewed commitment to pre and post assessment better positions PAST Foundation to analyze and modify our programs and truly assess their impact upon students, teachers, PI’s and the community at large.

In 2017, PAST Foundation amplified our impact in our commitment to robotics excellence. We continued to develop a multitude of opportunities and events for robotics clubs in our local community. We were able reach nearly 1,200 students in the WOW District (Western and Central PA, Ohio and West Virginia) with our inaugural District Championship. PAST Foundation also hosted the 9th annual CORI Robotics Invitational at Dublin Coffman High School for FIRST Robotics Competition (FRC) teams. In 2017 we were able to host some of these events inside our world-class robotics arena, on loan from Wright Patterson Air Force Base Educational Outreach.

PAST also became an incubator site for other schools’ FIRST Robotics teams. PAST rented space in our Robotics Proving Grounds Powered by the Rosen Family Fund. PAST Foundation provided 4 robotics team bays adjacent to the Proving Grounds and various schools rented space to have access to this great resource. Bridge Programs increased its program offerings in both number and diversity. Local programs included Verily A New Hope (CATCO), all three levels of FIRST Robotics, Minecraft Mathematics, CAD and 3D Printing, ROV’s, Drones, Art & STEM, and Maker Robotics. We
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Again ventured into international waters with the Global Sustainability program in the Virgin Islands. Bridge Program’s impact could also be felt on the east coast as students participated in the Tall Tales maritime archaeology program in conjunction with Dr. Calvin Mires in Salem, Massachusetts.

In 2017 Bridge Programs impacted more than 4,200 students. We provided students with opportunities and activities that prepare them for a future of limitless access to innovation: Where you can live on the east coast but work on the west coast all without leaving your home, or where students can design and 3D print their own solutions to everyday problems. And we are looking forward to an even more engaged and amplified 2018 season. Ultimately, our goal at PAST Foundation and with our Bridge Program can be summed up with this statement:

We design and run programs where all kids can experience real-world learning all while having fun.

See all of our summer programs at our website!
Go to:

pastfoundation.org/bridge-programs

Follow the link for Summer Programs. Register today. Programs fill up fast!
PAST Foundation explored Bridge Programs on 4 distinct frontiers in 2016/2017. International, National, Regional and Local. Below are all the Bridge Programs run by the PAST Foundation and our partners.

**International**

VIERS: Global Sustainability, US Virgin Islands
High School Students
May 5th - Jun 20th, 2017
TellTales to Learning: Maritime Archaeology Summer Field Program
Salem, MA
Middle School Students & Teachers
June 7th - 17th, 2017

TellTales to Learning: Maritime Archaeology Summer Field Program
Salem, MA
Middle School Students & Teachers
July 24th - 28th, 2017

MATE Buckeye Regional ROV Competition
4th - 12th Grade Students
Columbus, OH
May 6th, 2017

WOW Alliance District Championship
High School Students
Westerville, OH
May 27th, 2017

CORI FRC Scrimmage
High School Students
Columbus, OH
February 18th, 2017

FIRST Competition Kickoff Event
High School Students
Columbus, OH
May 6th, 2017
PAST Innovation Lab

PAST/Metro Learning Labs
High School Students
Columbus, OH

Our goal was to create a state of the art Education R&D prototyping facility. Our partnership with Metro Early College High School provides programs and opportunities for students all around Columbus and Franklin County.
Local

Maker Mania
All Ages
September 24th, 2017

Maker Mania: Holiday Edition
All Ages
November 12th, 2017

Maker Mania
All Ages
Various Dates
at Otterbein University’s the Point
Sponsored by Otterbein University the POINT

Minecraft Mathematics: Elementary
Elementary School
April 11th - May 16th, 2017
Co-Sponsored by Nodecraft and AXP

STEM Rocks the Box
High School
April 24th - May 1st, 2017
at Shadowbox Live
Sponsored by Shadowbox Live

Verily a New Hope: Shakespeare and Star Wars
Middle School
June 5th - June 9th, 2017
Sponsored by CATCO Theater

CAD & 3D Printing
Middle School
June 5th- June 9th, 2017
Sponsored by IC3D

ROV for Girls
High School
June 12th - June 16th, 2017
Co-Sponsored by Honda & Battelle

FIRST Technical Challenge
Middle School
June 12th - June 16th, 2017
Co-Sponsored by Honda & Battelle

These Are The Drones You Are Looking For
Middle School
June 12th - June 16th, 2017
Sponsored by AIMDROIX

Minecraft Mathematics
Minecraft Mathematics: Elementary
Elementary School
June 12th - June 16th, 2017
Co-Sponsored by Nodecraft and AXP

Minecraft Mathematics: Level 1 and 2
Middle School
June 19th - June 20th, 2017
Co-Sponsored by Nodecraft and AXP

FIRST Robotics Challenge
High School
June 19th - June 20th, 2017
Co-Sponsored by Honda & Battelle

Sprouts S-Series Hybrid Learning Lab
High School
June 26th - August 4th, 2017
Co-Sponsored by Martha Holden Jennings Foundation & Columbus State Community College

FIRST LEGO League for Girls
Middle School
June 26th - June 30th, 2017
Co-Sponsored by Honda & Battelle

Reverse Engineering with CAD & 3D Printing
Middle School
June 26th - June 30th, 2017
Sponsored by Otterbein University’s the POINT

Art & STEM
Middle School
July 3rd - July 14th, 2017
Sponsored by Sherwin Williams

Shadowbox Live Summer Bootcamp
High School and UP
at Shadowbox Live
July 10th - July 28th, 2017
Sponsored by Shadowbox Live

Beginner Robotics
Middle School
July 10th - July 14th, 2017
Co-Sponsored by Honda & Battelle

FIRST LEGO League Smash Hits
Middle School
July 10th - July 14th
At Otterbein University’s the POINT
Sponsored by Otterbein University’s the POINT

Art & STEM Mural Painting
MathPLUS Academy: Minecraft
Middle School
July 10th - July 14th, 2017
Co-Sponsored by Honda & Battelle

Beginner Robotics
Middle School
July 17th - July 21st, 2017
Sponsored by MathPLUS Academy

MathPLUS Academy: Video Game Design
Middle School
July 10th - July 14th, 2017
Sponsored by MathPLUS Academy

Intermediate Robotics
Middle School
July 7th - July 10th, 2017
Co-Sponsored by Honda & Battelle

MathPLUS Academy: Maker Camp
Middle School
July 24th - July 28th, 2017
Sponsored by MathPLUS Academy

Minecraft Mathematics: Elementary
Elementary School
July 10th - July 14th, 2017
Co-Sponsored by Nodecraft & AXP

Maker Mania: Material Science
Middle School
July 31st - August 4th, 2017

Cardboard Challenge
All Ages
October 1st, 2017
10 Locations around Columbus, OH
Sponsored by Columbus Museum of Art

Minecraft Mathematics
Middle School
October 11th - November 4th, 2017
Co-Sponsored by Nodecraft & AXP

Minecraft Mathematics
Middle School
November 4th - December 8th, 2017
Co-Sponsored by Nodecraft & AXP
Innovators Club After School STEM Club
Grades 5-8
August - June

Thank you for being a positive support for kids. We love the Innovators Club and the awesome activities that PAST has to offer!

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Camps fill up fast! Sign up today.

PASTFoundation.org/events/summer-programs-2018-bundle-packages

pastfoundation.org