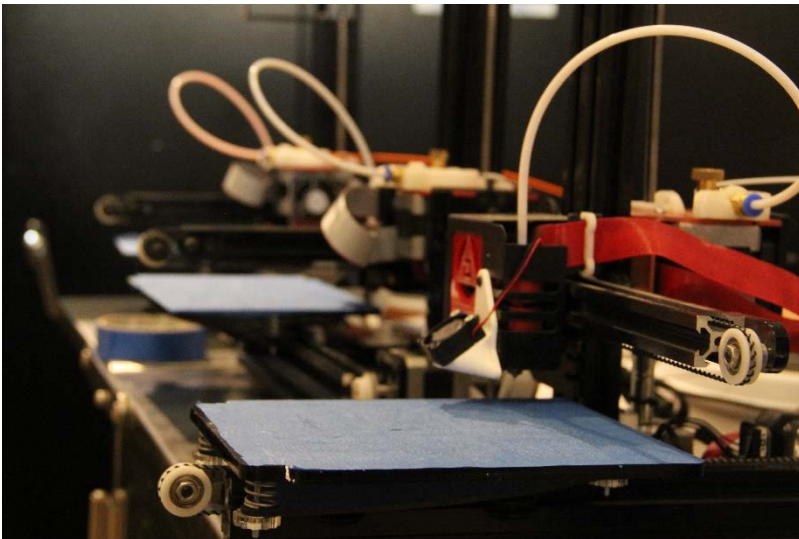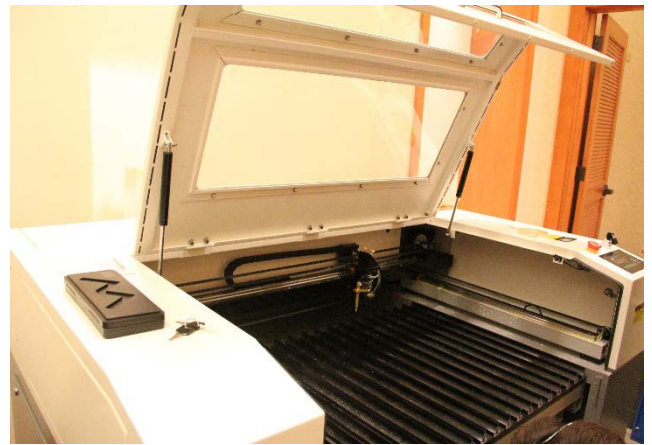# Summer was pretty cool …But now it's back to School!

Can you believe that summer is coming to a close? We sure can't. Time has flown by! These past three months have been filled with new faces, classes, and technology. Now that school is starting back up again, make sure to stay on the lookout for our fall classes. Thanks for an amazing summer and we can't wait for an equally amazing fall!

Announcements

WE ARE EXCITED TO WELCOME NEW INSTRUCTOR CELINA TO PVNET! She will be leading our STEM University classes during the school year!

SIGN UP NOW FOR OUR NEW ART DESIGN FOR LASER CUTTING CLASS! Learn about laser cutting and get your own design cut on acrylic! Students must have some experience using Adobe Illustrator. Class starts this Saturday, from 3:30-5:30.

EDUCATORS! YOU ARE INVITED TO A FREE 3D PRINTING INFORMATIONAL SESSION THIS SATURDAY! We will be answering all your questions about 3D printing technology and demonstrating the ZEUS All-In-One 3D Printer and Scanner, the top 3D printer choice for education. Come join us at 1pm for an afternoon of brainstorming, snacks, and learning. Find out how 3D printing can fit into your curriculum!

FALL INTERNSHIP AND VOLUNTEER POSITIONS OPEN! High school and college students are welcome to apply for our specialized volunteer positions! Volunteers can receive class credit and volunteer hours, while learning about the latest technology. Or, become an intern and get access to all our technology, while taking classes! Visit PVNet.com for more information and instructions on how to apply.

Coming toPVNet!

BRAIN TRAINING FOR STUDENTS, ATHLETES & THOSE STRESSED WITH LIFE

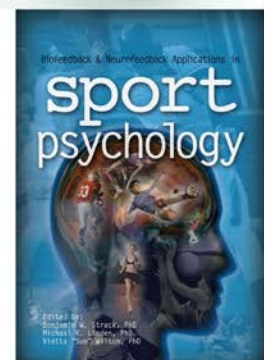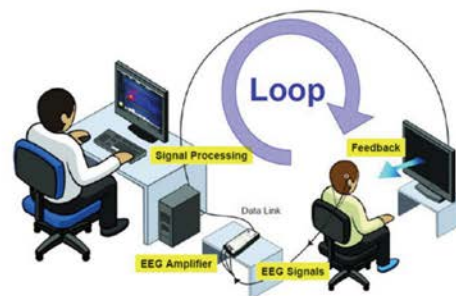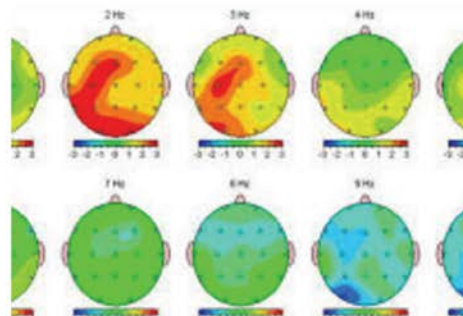**By Dr. Carol Francis, Clinical Psychologist**

For:

STUDENT EFFICIENCY AND MEMORY, ATHLETIC FOCUS & PERFORMANCE, EXCELLENCE TRAINING MINDSET, STRESS REDUCTION, AND MINDFULNESS

Mastery of any feat requires our brain neurology to cooperate with our bodies, our emotions, with our learning styles and the skill we wish to master.

Dr. Carol Francis

EMOTIV PURE·EEG

Classes

Tinkercad and 3D Printing

In this class, students learned about Computer Aided Design with Tinkercad, a popular online design software. They also learned about the different types of 3D printers, and how they work. Each student got to print their design on our 3D printers. They also got an introduction to 3D pens, and had fun creating unique art.

VEX IQ Robotics

Our new robotics session continued this week! Students started the program by completing virtual challenges on the computer using RobotC. After building up their programming skills and finishing all the challenges, students progressed to building their own robots. They then programmed the bots and tested them on our VEX IQ platform. Robotics combines all aspects of STEM, and is a great activity for learning about technology. Join our class by signing up at PVNet.com!

Interns

Aysel designed a lightsaber handle in Maya, and printed it out on our 3D printers! She also finished her dragon, which is definitely the coolest thing that was made with the 3D pens all summer.

Daniel finished designing and laser cutting a Thank You plaque in Inventor for Josh, who donated time and supplies for a Tamiya car racing event two weeks ago. He has also been helping Instructor Sam with the laser cutter.

Lochlan finished his Pikachu in Maya, and 3D printed it. He also took Java classes this week.

Michael has improved his Java skills greatly this summer! He continued taking classes this week.

Lauren has been learning Photoshop and Adobe Premiere. She also started taking videos of PVNet daily events.

What were some of the highlights of this summer?

STEM UNIVERSITY

This popular class was a staple of our mornings. We loved seeing the young faces that showed up bright and early at our doors, ready to learn, explore, and create. They weren't disappointed! This year our curriculum was broad and varied.

We introduced students to 3D modeling and animation through Autodesk Maya, the industry standard software for designing models in movies, video games, and TV shows. Even though Maya is a complex, industry standard software, many of our students picked it right up!
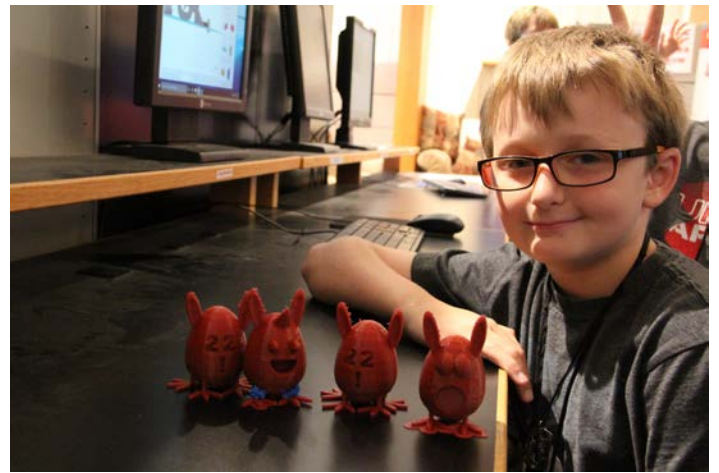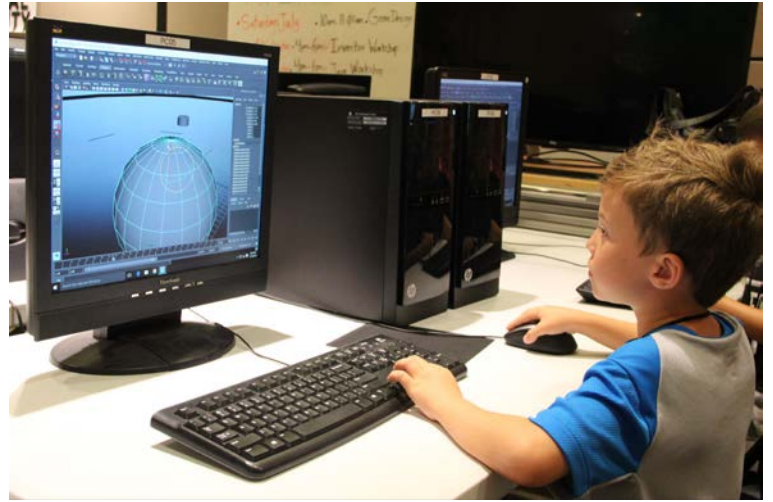
We also taught students about Computer Aided Design (CAD) and 3D printing through Tinkercad, a free online design software, and Autodesk Inventor, the industry standard for prototyping and design. A few of our more experienced students even printed their designs on our 3D printers. Students also learned how to use 3D printing pens, and always had a good time creating art in thin air.

Students also began learning about programming through MIT's Scratch, a free online programming language designed for introducing beginners to coding. But that's not all! They worked with Ozobots, or small programmable robots, and LittleBits, small magnetic circuits that snap together, letting kids experiment with engineering and invention. Each part of the day brought something new at STEM University. We continue running this class during the school year, so make sure you sign up for more STEM University at PVNet.com!

CLASSES

We had many other cool classes over the course of the summer, including 3D Modeling and Animation/ Game Design, Java coding, Virtual reality, Autodesk Inventor, Video Production camp, Tinkercad, Quadcopter, Minecraft, and more! We even introduced new classes such as Soldering and Laser cutting. It is very exciting to see our programs expand, and to meet new students. Classes continue in the fall!
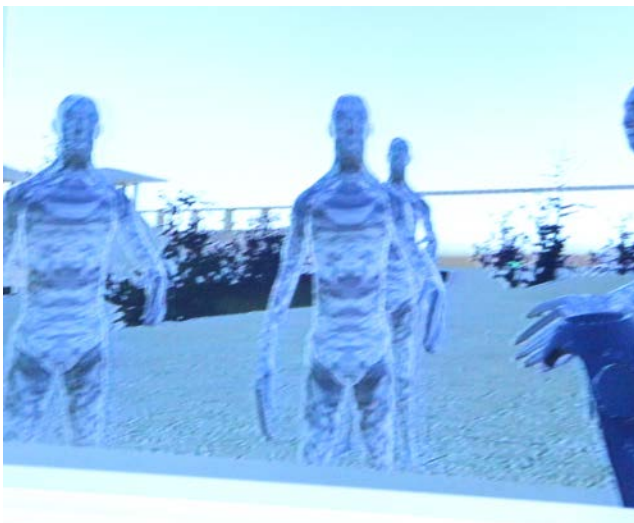
PROSTHETIC HANDS FOR KIDS

This summer we were able to donate many hands to children in need! It was a community effort, and we were so happy to see families working on hands together. The hands that we finished will be sent to e-NABLE, a charity organization that will match them to children. Thank you so much to our supporters! Whether you made or sponsored a hand, your contribution is greatly appreciated.

GAME DESIGN

Another cool accomplishment this summer was the finishing of our virtual reality video game "Zombies on the Hill". The complex process, which involved coding, modeling, and animation was completed last week. Congrats to the Game Design team, who spent weeks working on the project. Now, we are looking for game design contests to submit "Zombies" to. Come to PVNet to try it out for yourself!

VIDEO PRODUCTION

The second great project that was completed this summer was the PV Transit PSAs. We will be submitting them shortly to PV Transit! The making of these videos was a long process, involving script writing, animation, audio recording, and editing. Thank you to our team, who worked throughout the summer on this project. We hope to see them on air soon!

Michael- Editor and Audio Engineer

Eunice- Animator and Editor

Aysel- Scriptwriter

Lauren- Designer

Voices- Katy, Joseph, Tommy, Christian, and Ted

ROBOTICS

Our robotics program is up and running! Led by instructors Kirithika and Don, our VEX IQ students are making progress in leaps and bounds. We are so excited to create our first robotic teams this school year, and are already planning scrimmages and competitions to attend. You can catch our students programming, building, and testing their robots every Monday and Thursday 4-6pm. Also, stay on the lookout for our new BattleBots club, which, while still in the planning stages, will be here soon!

NEW TECHNOLOGY

Laser Cutter

This summer we started to use our laser cutter, making everything from 3D printing filament stands to plaques. The 90-watt laser cuts acrylic, wood, and other materials, making clean designs. We can't wait to see what else we can make with it!

Second HTC Vive

Thanks to the Grigoriev family, we are the proud owners of two HTC Vives! The addition of another headset will greatly benefit both our virtual reality programs and our interns.

EMOTIV Epoch+

Our new EEG program will start this fall! We got our headset this summer, and have been experimenting with it for weeks. Come join us as we learn more about EEG technology and its applications.

Our new technology is awesome and we can't wait to put it to good use!

Editor's notes: I saw so many students taking classes this summer at PVNet, students immersing themselves in the latest technology and having fun at the same time. One familiar face in the crowd was my brother Nathan. He is ten years old, the perfect age for most classes here. After attending six weeks of STEM University, he moved on to take the VEX IQ robotics class, which he enjoys greatly. Nathan, our family is so proud at how you are excelling in your class. We love you, and we can't wait to see what cool things you accomplish this year as you continue to learn and grow. Keep up the good work bro.

We had an amazing summer, and this fall is going to be just as good. Come visit us during the School year at the Promenade and keep your ears open for class and tech updates! Thank you so much for reading this summer!

Writing and Pictures by: Lauren Leung

PVNet News
Summer 2016