



Educator Webinar Series: Tools & Tips for Virtual STEM Summer Camps

January 21, 2021 4:00-4:30 pm

Educator Webinar Series: Tools & Tips for Virtual STEM Summer Camps

Agenda

- Introductions
- Online resources
- Tools for summer camps
- Online platforms & technology
- Q & A



Who we are



Dr. Marilyn BargerDirector



Danielly Orozco-ColeProgram Manager
Career and Technical Education

Florida Advanced Technological Education Center



Guest Speaker



Desh Bagley

Director - IT/Coding Academy, State College of Florida Founder - TechPlayzone



Who we are

Florida Advanced Technological Education Center



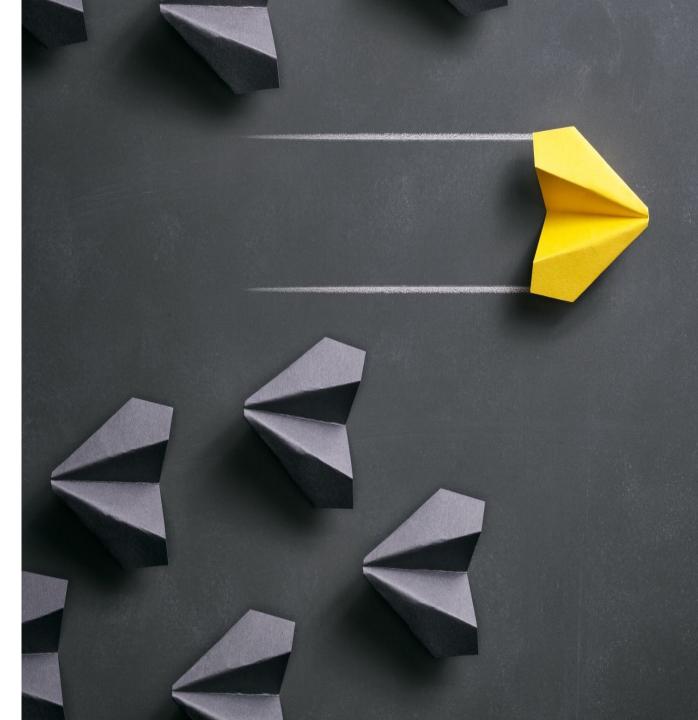
Strengthening Career & Technical Education for the 21st Century Perkins V Act, State Leadership

VISION

FLATE will drive
Florida's World-class
Manufacturing
Workforce Education









FLATE'S Work







Impact locally. Lead nationally.

Welcome

Tools & Tips for FUN Virtual Camps



Pre-Camp Planning

Camp Planning and Preparations

Determine the following

- Topics, budget
- Platforms
- Staff and volunteers

Communication

- System and software requirements
- Equipment requirements
- Train staff and volunteers

Marketing and Media

- Flyers and social media
- Press releases

Collaboration and Celebration

- Online tools to share projects
- Share videos and pictures
- Invite sponsors to hear presentations

HCC Robotics & Engineering Virtual Summer Camps

Middle School Robot Virtual Worlds

July 6th - Virtual Robotics Camp Free Preview

July 13th - Virtual Robotics Camp II



Registration Info: https://www.suncoastfll.org/hcc-camps.html

Camp Details:

Middle and High School Campers Monday – Friday Morning Camps

Software and Hardware Requirements: ZOOM needed for all camps

Robot Virtual Worlds: 64-Bit PC / 4MB RAM / Windows 10 Camp Aspire – Ukit App for Android or Apple Device

July 6th Robot Virtual Worlds - Virtual Camp I - Free Preview July 13th Robot Virtual Worlds - Virtual Camp II - \$75.00

July 20th - All Girls Camp Aspire – \$175.00

July 27th - High School Advanced Camp Aspire - \$175 (robot kit will be returned at the end of the week)

Advanced Camp Aspire requires refundable deposit

Desh Bagley dbagley5@hccfl.edu (813) 444-2267

For camp information and payment contact:

CAMP ASPIRE – Virtual Camp with Kit Included

July 20th - All Girls Robotics Camp Aspire

July 27th – High School Robotics Advanced Camp Aspire



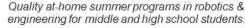


Hillsborough County

















Camp Topics

Robotics, Game Design, Minecraft, Coding, Electronics, 3D Design









Camp Platforms

Meetings

















Online Meeting Platforms

Technology



Laptops, MacBooks, Chromebooks

Online Resources

FIRST @ Home





Bring learning to life with free and flexible PreK-12 STEM activities from *FIRST*®









https://www.firstinspires.org/community/home-learning

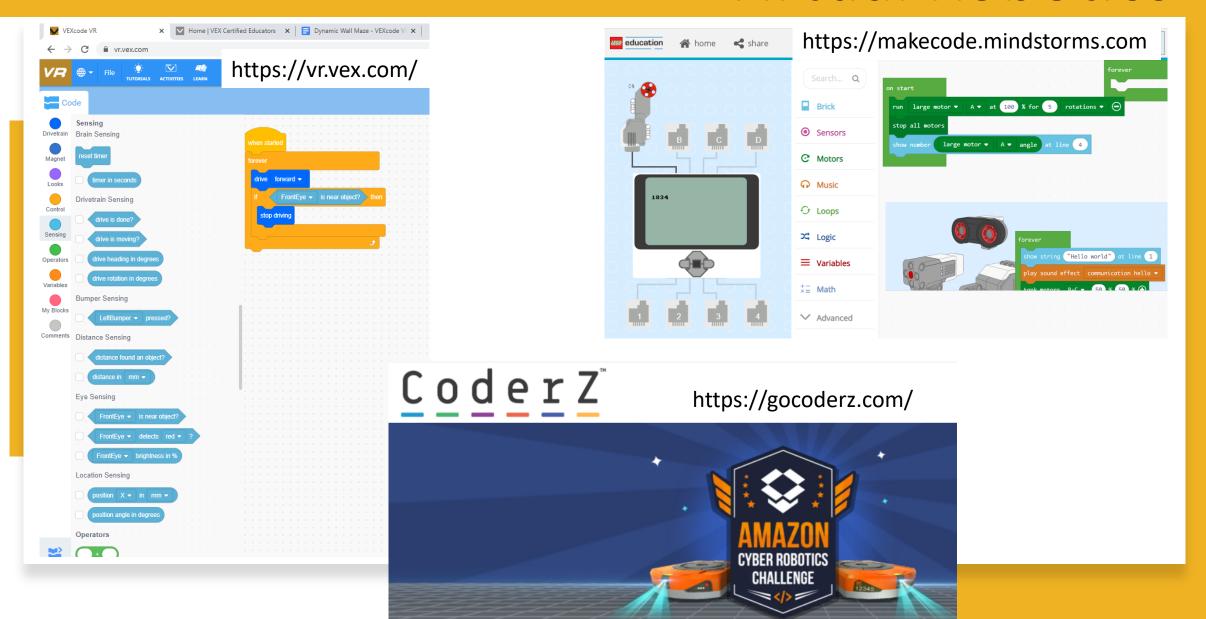
- Coding, Programming, and Artificial Intelligence

Want to learn a new coding language, brush up on your programming skills or take it to the next level and dive into machine learning?

These resources will help you develop computer science, coding and programming related skills.

- Beginner/Intermediate Scratch a block-based visual programming language similar to Spike Prime and FIRST Tech
 Challenge languages Code interactive stories, animations, and games.
- Beginner/Intermediate Hour of Code a variety of tutorials in Python, Java, JavaScript, C++, Block Based.
- Beginning to Advanced AWS Educate is Amazon's global initiative to provide students comprehensive resources for building skills in the cloud. It is a no-cost curriculum providing access to content, training, pathways, and AWS services.
 These two activities are a great way to start students the cloud-related learning content and resources on subjects from storage to machine learning.
- · Intermediate Programming Electronics Academy Arduino programming course and resource guides
- . Intermediate/Advanced Machine learning Projects Explore innovative topics and do projects or hands on challenges.
- Intermediate/Advanced AP Computer Science A in Java
- Intermediate/Advanced Teachable Machine Train a computer to recognize your own images, sounds and poses. Great
 activities to do at home to practice generating machine learning software from collaboration with our friends at Google.
- Beginner/Intermediate Our strategic partners at Qualcomm[®] Thinkabit Lab™ are Inspiring the next generation of inventors
 by showing students that they can be part of inventing the wireless world of the future.
- Meet Ashley and Abakir, two #AmazonFutureEngineer Scholarship winners and #FIRST alumni, as they introduce this year's
 Amazon Cyber Robotics Challenge! Learn to code and complete the challenge this fall for a chance to win \$250 for your team. Learn more: AmazonFutureEngineer.com/CyberRobotics
- . Middle School 2 Part (90 minute activity) Make a chat bot with Amazon Lex.
- High School 3 Part (120 minute activity) Artificial intelligence using cloud computing.

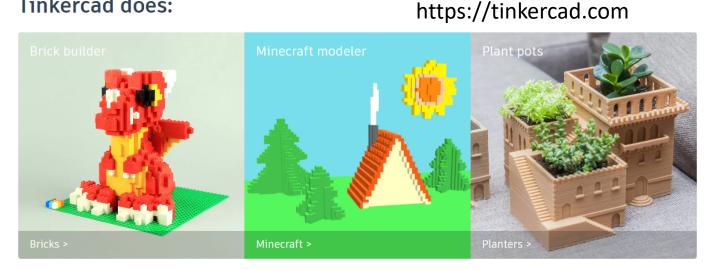
Virtual Robotics



TinkerCad

Tinkercad does:

3D Design >



Create, design, & make anything Program, simulate, & assemble

Electronics :

PrintLAB – Online Tutorials for Tinkercad https://classroom.weareprintlab.com/

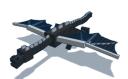
Designing in Tinkercad for 3D **Printing**













MCEdit: World Editor for Minecraft

MCEdit is a saved game editor for Minecraft. Since Minecraft saved games contain every single element of the world the player is playing in, it has much more in common with 3D world, map, and terrain editors than traditional saved game editors. MCEdit has been developed since 2010 with the original goal of allowing Classic levels to be played in the full version of Minecraft, but has since evolved into a full featured editor and is currently undergoing a thorough rewrite for version 2.0.

Minecraft

http://minecraft.net



WELCOME TO MINECRAFT

With new games, new updates, and new ways to play, join one of the biggest communities in gaming and start crafting today!

Be aware:

- Use the Computer Java Edition Minecraft
- Laptops with enough memory for both
 Minecraft and remote meeting software

UBJECH

Hybrid Camps

EDUCATION

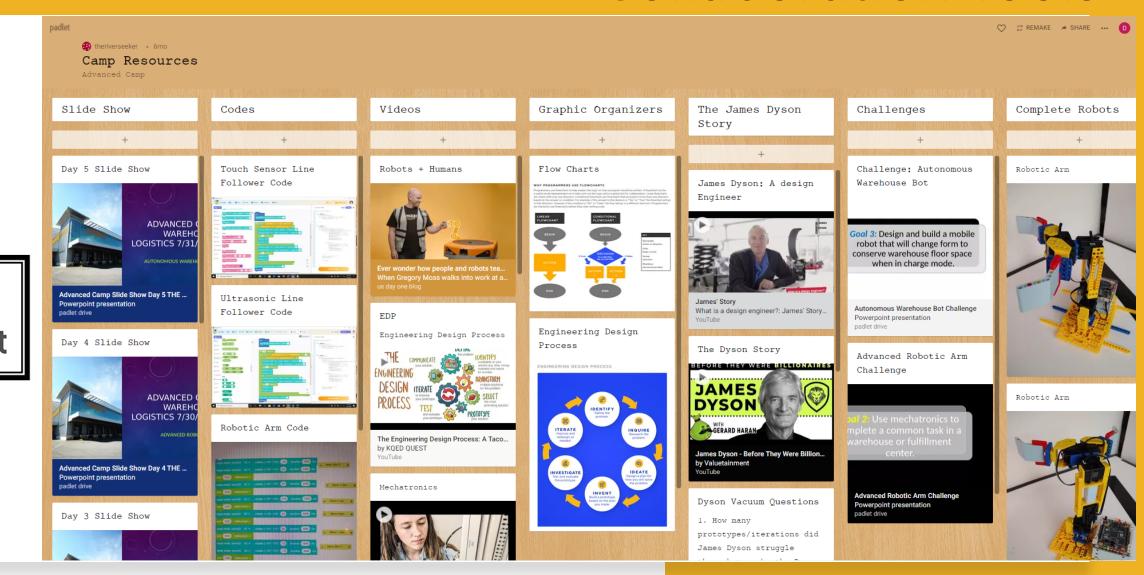








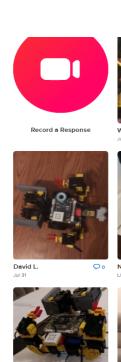
Collaboration Tools



https://padlet.com/theriverseeker/melm6ma4zhkyubxa

Collaboration Tools











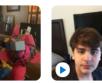




























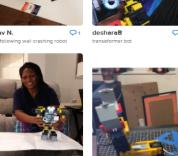


























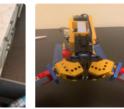












Camp Celebration



- Campers give presentations
- Celebrate accomplishments
- Invite sponsors to hear the campers

- Get photo release forms signed by guardians
- Take lots of screenshots
- Share those with media, parents, and sponsors



HCC CAMP ASPIRE - ALL GIRLS CAMP - MISSION TAMPA BAY

Made in Florida Resources



http://madeinflorida.org/



www.flate.pbwiki.com



JOIN US

FLATE Ed. Webinar Series:

Tools & Tips for Funding Tech Summer Programs

Thursday, February 18th, 4:00 – 4:30 pm

Visit FloridadaMakes/<u>Events</u> or Register <u>Here</u>





Questions?





Florida Advanced Technological Education Center-FLATE

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State College of Florida

http://coding.scf.edu Desh Bagley (TechPlayzone) bagleyd@scf.edu IT/Coding Academy Director

Presentation and link to the recording available at www.flate.pbwiki.com