Skills21 at EdAdvance

Summer 2021





Program Setting and History

For 20 years, the Skills21 program at EdAdvance has featured a rich combination of challenge-based learning, professional development, experiential learning events, and Student Expo which together improve:

- Academic Gains
- 21st Century Skill Mastery
- STEM College and Career Attitudes
- Ability to Work With Students from Different Backgrounds



Challenge Categories

- Advanced Manufacturing
- Capstone
- Computer Science
- Engineering
- Entrepreneurship
- Health
- Middle School
- New Media
- NGSS
- Technology



Engineering Challenge

What is the Engineering Challenge?

Students who compete in The Engineering Challenge are expected to identify a problem in which they develop an innovative solution. This solution must be approached with a strong engineering focus. The project must incorporate the theme of *Breaking Boundaries*. All projects will be showcased at Skills21's Expo Fest on Saturday, June 6th 2020 at the Oakdale Theatre in Wallingford, CT.

What are the expectations for the Engineering Challenge?

- Project Idea contains the 2020 theme, is considered viable, creative and proves to be unique from its competitors.
- Research & Development is documented including focus groups, surveys, test audiences, primary research as well as design and prototyping.
- Computational Thinking is used to analyze and interpret data as well as providing visual data and a project value document.
- Written Documentation and White Paper are free of grammatical errors and articulate the project's goal.
- Marketing is used to create compelling messaging and visuals for the project in all media including social media and website.
- Project Booth creates an engaging environment for the project and helps visitors interact with the project and the team.
- Project Presentation is well rehearsed and contains visual aids. Presentation must be 3-5 minutes in length.
- All aspects of the project are documented on the Launchpad Profile due by May 25th- including a project trailer.

Helpful Links:

- Scoring Criteria
 Project Value (template)
- Booth Guidelines
 Launchpad
- Booth Example
 Pitch Example

CREATIVE DESIGN

at EdAdvance

Important Dates:

- Launchpad Names and Project Name Deadline: February 7th, 2020
- Launchpad Final Deadline: May 25th, 2020

Questions?

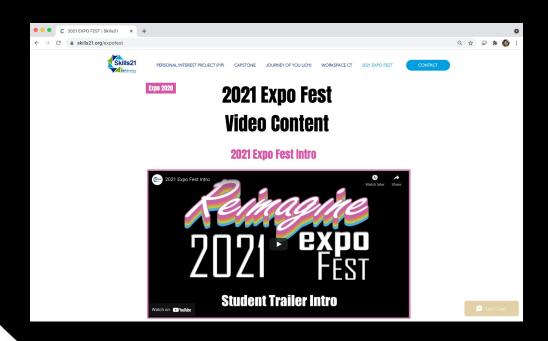
Please contact Gary Robinson (<u>robinson@edadvance.org</u>).

Current Program Areas

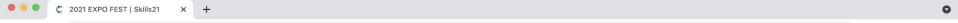
- Personal Interest Projects
- Capstone / Mastery-Based Diploma Assessment
- Lt. Governor's Computing Challenge
- NSF ARX21 STEM & Augmented Reality
- NSF Advanced Manufacturing
 - skills21.org/manufacturing-challenge



2020-2021 Examples of Student Work









PERSONAL INTEREST PROJECT (PIP)

CAPSTONE

JOURNEY OF YOU (JOY)

WORKSPACE CT

2021 EXPO FEST

CONTACT



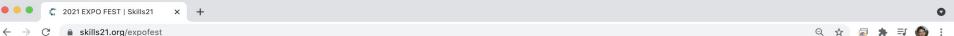
2021 Expo Fest Video Content

2021 Expo Fest Intro



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Overall Humanities, Arts and Social Justice

First Place: Academia Lost -Christopher Nivers - Pomperaug

Second Place: Modern Mixing -Brynn Paccione - Pomperaug High

Third Place: STEM for BIPOC & Women - Adira Ahmad Rizal - Hill Regional Career High

Outstanding STEM

First Place: Memento - Liam Delaney - Pomperaug High

Second Place: DomeFlow -Shivaun Mathews - Pomperaug High

Third Place: Tether Spaceways -Cole Stevens - Pomperaug High



Computer Science Challenge

Middle School Challenge

First Place: Byte Sized Cookies -First Place: Sharp Focus - Thomas Edison Middle Newtown High

Second Place: Simple Thought -Second Place: Hacks4You -Kaynor Technical High Thomas Edison Middle

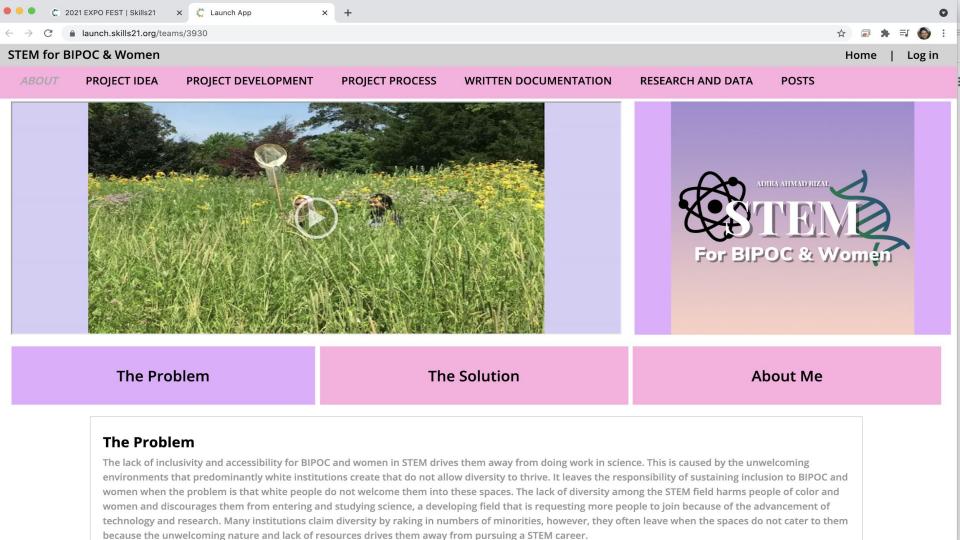
Excellence in Engineering NGSS Challenge

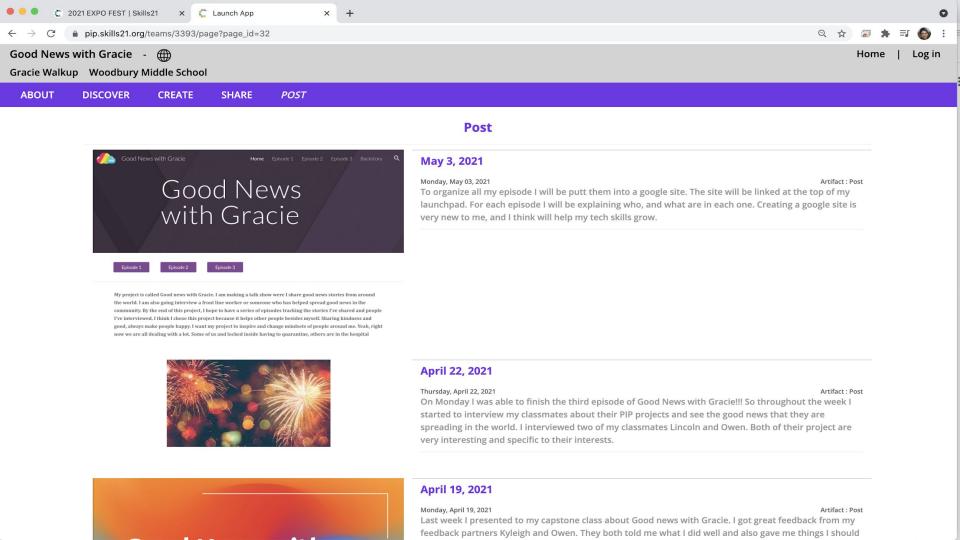
Technology Challenge

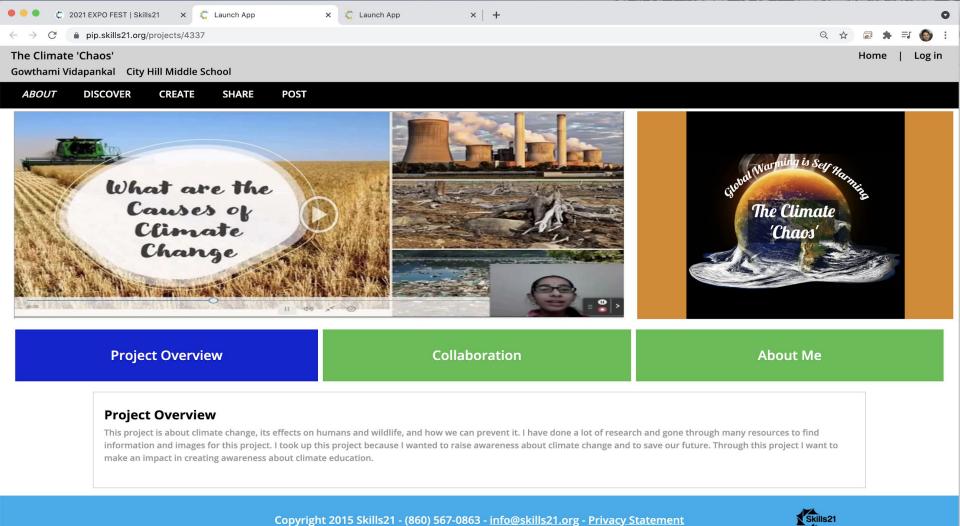
First Place: Stylo - Wamogo Regional High

Second Place: SwiftStep -Wamogo Regional High









Thank You



