

Jennifer Suzuki

Advisor

Maui Waena Intermediate School
Falcon Entertainment & Engineering
STEMworks AFTERSchool Program

808-385-2942

mwis.suzuki@gmail.com

mwisstem.com



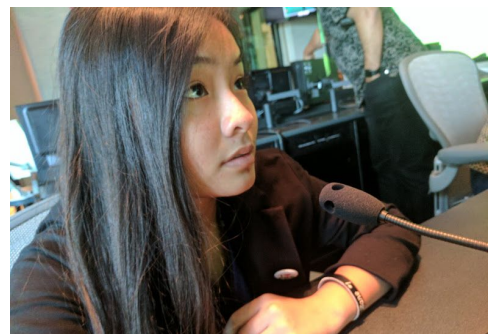
(Some members missing)

WHY WE EXIST— “I feel that if we can create an environment where students can find purpose, find a place to be themselves, and, maybe even, find their passion—that is why Falcon Entertainment & Engineering exists.” Jennifer Suzuki, Advisor

“STEMworks is like my second home. It is an inspirational program that teaches me about media, film, technology and life skills that I will use now or in the future. I have learned so many things from STEMworks, Mrs. Suzuki, Justine, and my peers. We learn from each other in a safe environment. We feel focused, happy, and free which is what some of us can't feel at home. It keeps us interested in media and learning instead of other bad stuff. We feel confident and like we belong.” Kamri Cruz —7th grade

“STEMworks is one of the closest things to my heart as it not only teaches me how to use cameras computers and editing programs but it allows me to learn about myself, gives me a chance to make new friends that bring me through experiences, and STEMworks teaches me how to use my time wisely with a team of other wise people.” Emi Sado 7th grade

“Media has been extremely worthwhile. It's full of life and everyone here gets along. We work together and media helps us build teamwork through the projects we do. Media has sprouted creativity in our minds and has introduced us to new skills for us to use. We can learn how to write stories, film, or even animate. We gain new abilities and, honestly, we get a new family. Not all of us have perfect lives, but in media we can make friends, gain relationships with our new family, and if we're not social enough to do all of that, we can discover things that we love doing. Media has given us a new life, a new



way of thinking. Together, we help each other overcome difficulties and laugh along with each other. We learn new things, we learn about writing, filming, editing, and much more. We enjoy ourselves here and we love learning about the new things here. Here in media, we are family. We give each other help and learn new things in the process. We don't turn on each other and we'll always help each other on new things." Jadyne Zane 10th grade

"The Stemworks program means so much to me because it's a place where people come together and do many thing like videos, robots, drones , and many other things. Thanks for this wonderful experience." RJ Manglicmot- 6th



"Media Club? Robotics club? For some people these two clubs may be for "geeks" and for "nerds". To tell everybody the truth, it is, but we don't care. These clubs made me the person I am today. These helped me realized that I am a part of something, and that I really belong. Things would be so different if I wasn't in Technology Club. In media and robotics club, I am in a new family--a family who would support, help and love me.

Technology is my passion. Making videos, taking pictures, editing--these are the things I wanted to do. My fellow club members would probably think so too." M.J. Dinong 10th grade

"I feel like STEM is a hobby that I enjoy so much. It keeps me productive and it impacts me in so many ways. STEM helps me decide my college and career pathways and it made me a better person. STEM makes me more social because I was shy back then. STEM makes me learn something new everyday and STEM is life!! When I joined STEMworks I was shy but I made new friends and my teacher helped me with problems that I couldn't solve and she help me become more social by presenting a presentation to professionals at Ala Moana. In media, I got to use new equipment that I never heard of and I got to learn new tricks that I got to do on the computer or when I make new videos."

-Jacelyn Yun 7th grade

"STEM-works has taught me how to film, edit, and do after effects these are all skills I will use in the future. Before I joined STEM-works I didn't know what I wanted to be when i grew up, soon after joining I realized I want to be a photographer when I grew up. As you can see STEM-works gives kids an opportunity to have fun, learn, and cooperate with others. To me STEM-works is where kids can discover there dream, and learn the right skills to pursue that dream. That is what STEM-works means to me."

Thalia Westberg 6th grade

"This club well, where can I start? This club has made me feel special and important. This club helps me create new relationships with other people, it made me come out of my shell. This club is worth donating money to because we do our best, we don't give up. Heck no, This club gives people new experiences and helps us gain confidence in ourselves." Renzo Gaioran—9th



"If I had one word to say about the tech club is nothing. Nothing because I can not express how much I have to say about the tech club. When I was "lost" let's just say that I was found by the people in the club, but not only that through that time the tech club also taught

me that you should be strong and you're never alone. But the best thing that the club showed and taught me was I was never alone and that we are a family. David Ogden Stiers said it best: 'Family means no one gets left behind or forgotten'." Wincy Perez— 9th

"Media and robotics has not only given me a background with visual arts and engineering that I can take with me to use in future job opportunities, but with the guidance of Mrs. Suzuki, I have achieved much greater and been offered many opportunities. It has also impacted me socially. The atmosphere of being in a mature environment with people who are focused on creating quality work has helped me grow into a better student today." Justin Yago—College Sophomore

"It keeps kids like me interested in video making or inspires them to learn about how to see things in a different light, like flowers being an art piece rather than a thing in the grass. It also teaches people how to work with others. Because of how we work the kids have to learn to communicate. People are going to have disagreements on how tight a shot should be or how the interviewee should go on the left side rather than the right. The kids have to communicate and have to come to a conclusion. The deadlines and pressure to create forces you to finish. The kids must learn how to talk through things or learn to tell others efficiently." Zain Jabbar —College Freshmen 3

Organization

Mission Statement

Maui Waena STEMworks (aka Falcon Entertainment & Engineering, FE2) is devoted to developing potential in its student members and encouraging them to become productive members of our larger community. We strive to provide real world experiences and opportunities that show them the possibilities available in STEM related fields. With this exposure, we hope to help create a group of independent thinkers, problems solvers, and confident communicators who are equipped to be community leaders

What We Do

FE2 participates in many STEM related activities and is devoted to developing potential in its student members and encouraging them to become productive members of our larger community. These activities focus on the media and robotics aspects of STEM and include:

Media Hiki No, first student run half hour news show in the nation which airs on PBS Hawaii weekly.

PBS Student Reporting Labs, an affiliate of PBS's NewsHour, which gives Maui Waena students an opportunity to be heard Nationally.

Student Television Network, the largest student news affiliation in the nation. STN hosts numerous competitions and an annual convention. These national competitions allow our students to strive for higher journalistic standards and get feedback on their work from industry professionals.

Olelo, 808 Digital Storytellers, HMSA, Farmer's Insurance, and other local video competitions.

Falcon Features which is a weekly 20 minute newscast that broadcasts on our school's closed circuit TV and is permanently housed on our vimeo channel. Students plan, shoot, edit, and produce this show totally independently.

Robotics VEX and VEX iq robotics, which introduce students to the engineering process, basic coding, and game strategy.

Botball, which continues with the engineering process, develops a solid understanding of C+ coding, encourages a more sophisticated game strategy, and introduces technical writing in its documentation process.

Student club members are participate in real world experiences and opportunities that show them the possibilities available in STEM related fields. With this exposure, we hope to help create a group of independent thinkers, problems solvers, and confident communicators who are equipped to be community leaders.

CAD/Electronics/

History

Media club started in 2010 with 8 dedicated members. Students worked on Hiki No projects and produced a quarterly show which aired on our school's closed circuit. We had 7 computers in our class, 3 cameras and one wireless mic set.

Since then, we have made yearly growth. In 2011 we had 15 members and acquired 5 more computers from the school, 3 more cameras, 1 from a contest, 2 from grants, and another wireless mic set.

Over the next few years, we expanded the program to its current level of nearly 100 students who attend on a daily basis.

Through grants, contest winnings, and school support, we currently have 30+ cameras, 10 wireless mic sets, a total of 30 desktop computers and 15 laptops. It seems that we are doing well, but as anyone who deals with technology knows, electronics have lifespans that do not meet our growing needs.

It has become a full time job to keep equipment running, and to write grants, enter contests, and procure funds from the state to just keep up with our growth. What we need now is to gain community support to help us maintain our services and continue to grow.

Student Learning and Benefits

Falcon Entertainment & Engineering is unique for Maui. We are the only school with such an active technology club at the intermediate level. We offer exposure to:

Video Production

Camera operation

Storyboarding

News writing

Interviewing skills

Phone skills

Documentation of process

Technical writing

Donation requests

Grant writing

Presentations on program

Software

Final Cut X

Photoshop

Premiere

After Effects

Scratch

SketchUp

SolidWorks

Flash

C+

KISS C

Fusion 360

Students also learn

Graphic design

Shirt printing

Photography

Photo booth operation

How to plan fundraising events

How to function as a team

How to think on the spot

How to problem solve

How to analyze and adjust plans

How to strategize

How to communicate with a variety of audience

EXECUTIVE SUMMARY

Who We Are

Falcon Entertainment & Engineering is the outgrowth of Maui Waena Intermediate School's Technology Club. As the club started to grow in number and needs, we decided that a "brand" would be helpful to define who we are and what we do.

There are currently 100+ dedicated members of the club who meet four times a week for a total of 12 hours. These members range from 6-8 grade and are split almost evenly between female and male.

These dedicated students spend their free time learning how to plan, shoot and edit videos for various audiences. They also learn how to plan, build and program robots, and in the last 2 years, students have CAD, 3D printing, electronics, and drones to their learning. There are a variety of other skills they learn through these experiences, most importantly is to think creatively and work as a team.

Why Support Us

Falcon Entertainment & Engineering participates in state and national competitions for both video and robotics, creates videos for PBS Hawaii and PBS National, and creates promotional spots for local non profits.

We have garnered much success over the years and have grown a positive reputation in the community. Over the years we have received many awards for excellence in STEM related competitions:

2017-2018

Media

Student Television Network

1st Place Middle School Feature Story (Fall Challenge)

1st Place Middle School PSA (Annual Convention, Nashville)

1st Place Movie Trailer (Annual Convention, Nashville)

1st Place Silent Film (Annual Convention, Nashville)

2nd Place Short Film (Annual Convention, Nashville)

3rd Place Feature Story (Annual Convention, Nashville)

Honorable Mention Recap (Annual Convention, Nashville)

Excellence Award for Middle School Broadcast–Falcon Features

Hiki No

1st place Winter Challenge

Digital 808 Storytellers

1st Place Animation

1st Place Feature Story

1st Place Short Movie

1st Place PSA

Robotics

3rd Place VEX Maui Regional

Participation in Botball (tournament May 11)

MEDB

Daniel K Inouye Innovations Award (2017)

2018 STEM Conference

1st place 3C's Advertising Project-middle school

1st place recap–middle/high school

1st place conference shirt design–middle/high school

Other

Keiki Co Contest–Bank for Education

Special Mention Award

2016/2017

Media

STN Spring Excellence Awards

1st place--news story

1st place-PSA

Honorable Mention-short film

Student Television Network

1st Place-Middle School Crazy 8s' Broadcast

2nd Place- Middle School Movie Trailer

2nd Place-Middle School Music Video

2nd Place-Middle School Feature Story

3rd Place-Middle School Silent Film

Honorable Mention- Middle School Public Service Announcement

808 Digital Story Tellers

1st place PSA

1st Place Animation

1st Place short film

1st Place News story

STEM

3C's Middle School Division

Intermediate School PIA

Best Middle School STEMworks Program

Robotics

VEX

Think Award

3rd Place Overall

Other

Verizon App challenge, Best in State

2015/2016

Student Television Network

Honorable Mention- Middle School Music Video

1st Place- Middle School PSA

Third Place- Middle School Music Video

First Place- Crazy eight's MS Short Film Live Action

First Place- Middle School Movie Trailer

Second Place- Middle School Creative Segment

Honorable Mention- MS Public Service announcement

Crazy Eights Middle School Short Film Live Action

First Place- Middle School PSA

Honorable Mention- Middle School Anchoring Team

Honorable Mention- Middle School Music Video

Second Place- News or Feature Story

Second Place- Middle School Feature Story

Honorable Mention- Middle School Nat Package

Honorable Mention- Crazy 8s MS News Magazine

First Place- Middle School Breaking News

Second Place- Crazy 8s MS Short Film Fiction

First Place- Middle School Commercial

Second Place- Middle School Music Video

Third Place- Middle School public Service Announcement

Third Place- Middle School Convention Recap

STEM

3C's Middle School Division

Intermediate School PIA Winner

What is STEMworks competition winner

Olelo

Certificate of Excellence- Bahay Kubo news Category

2014/2015

Media

Honorable Mention-STN Fall Challenge

Honorable Mention-STN Fall Nationals

Top stories-2 top stories for Hiki No

Robotics

1st Place-STEM Research Project

Other

STEM Conference

1st Place- 3Cs Competition

1st Place- Poster Design

American Savings Bank Keiki Co contest--First place business plan

2013/2014

Other

1st place Poster Design--STEM Conference

1st place 3 C's Competition

Media

Honorable Mention--STN Fall Challenge/ Feature Story

1st Place --STN Sweet 16 Broadcast

3rd Place --STN Commercial

Honorable Mention--STN Music Video

1st Place Healthy Eating PSA Olelo

Robotics

2nd Place overall in Maui VEX tournament

1st Place Documentation Botball

Judges Choice Award Best sensors

2012/2013

Other

1st Place Web Design STEM Conference

1st Place Poster Design STEM Conference

1st Place Middle School 3Cs Competition STEM Conference

Video

HMSA Teen Video

1st Place Addiction Prevention

1st Place Middle School Entry

2nd Place Middle School Entry

3rd Place Middle School Entry

Special Award Sponsored by MADD

Olelo

1st Place-Middle school Driving Safety

Finalist-Mini Documentary

808 Digital Storytellers

1st Place PSA

1st Place Feature Story

STN National Convention

Honorable Mention for PSA

STN Fall Nationals

Honorable mention for Feature Story

Farmer's Insurance

1st place-Middle School PSA

Robotics

Botball

Second Place Seeding

Second Place Overall

Judge's Choice for Innovative Programming

2011/2012**Video**

STN Convention, TX

1st place Sweet Sixteen

1st place Feature Story

Honorable Mention Movie Trailer

808 Digital Storytellers

1st Place PSA

Olelo

Honorable Mention "Be a Jerk"

Honorable Mention PSA

Maui United Way

Community Volunteer of the Year Award

Robotics

First Lego League —Core Values Award

Botball

Judges Choice Award

2010/11**Media**

Student Television Network Fall Nationals

1st place PSA

Student Television Network Spring Nationals

2nd place Feature Story

STN --National Convention, FL

Honorable Mention Movie Trailer

Honorable Mention PSA

Financial Needs

Because of our growth in both number and needs, we have come to a point where we need to seek corporate sponsorship in order to continue. This year, it was necessary to hire an assistant, which we were able to attain private funding for, but this funding is only guaranteed for the remainder of this school year.

We are also in need of equipment upgrades and replacing worn out and broken equipment is continual.

Funds needed to continue:

STAFF 3 12 hour a week staff positions (25\$ an hour)	\$36,000
Computer upkeep and repair	\$2,000
Computer replacement/New purchases	\$10,000
Camera replacement/upgrades	\$10,000
Batteries, SD cards, Mics/mic wires, etc	\$2,000
	<hr/>
	\$60,000



Producer: \$5000 & above

Our producers provide us with funds that allow us to compete in national competitions and allow us to purchase upgraded, professional equipment and conduct summer classes for elementary students so that we can ensure that robotics and video continue in our community. Producers receive:

- all of the below plus
- Company logo or name on banner hung on school's front fence
- Naming rights for a competition robot
- custom shirt design



Director: \$1000 to \$4999

Our directors provide for the up keep and replacement of equipment, entry fees for competitions (both robotics and video), and help with in-state travel. Directors receive:

- all of the below plus
- Commercial for company
- photo shoot of event for company



Editor: \$500 to \$999

Our editors provide for the purchase of club shirts, bags, and consumable items (batteries, SD cards, cables, etc.)

- all of the below plus
- name on posters displayed at all media and robotics events
- link on websites (club and school)



Production Assistant: \$250 to \$499

Our production assistants provide funds for continued training opportunities and software purchases. Production assistants receive:

- name on shirts (for both robotics and video)
- name on all hand-outs



Fan: \$1 to \$249

Our fans help us to keep the production running by providing us with funds to purchase production essentials such as headphones, dvd, and paper.

- name on website
- quarterly digital newsletter