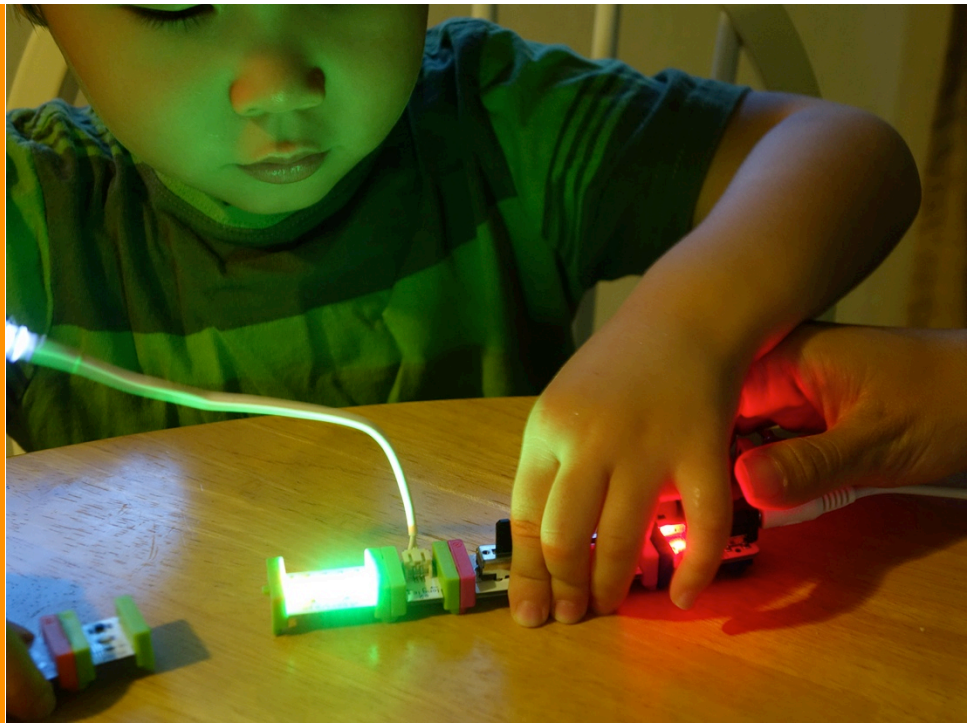


Kindergarten & G1
FALL 2018

Tech Literacy

21st Century
Skills Development



PLAY & LEARN!

KEIKI ENGINEERING



Innovation...

Hands-on learning.

Children will learn about basic science and engineering concepts through play.

Relevance.

It's about understanding abstract principles through application – real-world scenarios that children can relate to.

Creativity.

Designing and building things with safe, age-appropriate tech tools that really work!

The Tinker & Do Academy's Keiki Engineering program was created to foster interest in science and technology through engaging activities for early learners.

By targeting engineering as a platform for project-based STEM (i.e., science, tech, engineering, math) learning opportunities, overall academic engagement is increased, multidisciplinary learning opportunities are presented and a platform to support higher proficiency levels begins to form.

Fall 2018 Course for Kamehameha Elementary School: (See back of flyer for dates.)

- **Kidz4Bots** (Thursdays, 2:30-3:30pm; Kindergarten and Grade 1; 12 sessions) Learn about coding with robots

“Our children thoroughly enjoy the hands on approach with The Tinker & Do Academy. Their eyes brighten with great anticipation as they eagerly reproduce the mechanisms.”

~ Cynthia Bortfield, Director, The Toddler Program

THE **tinker**
& **Do**
ACADEMY

Phone: (808) 389-0077

Email: enhorner@gmail.com

Web: <http://www.hifusioned.org>

EXAMPLE: POWER UP! HELD Standards (Kindergarten)

- GK.KE.n Use senses and tools, including technology, to gather information, investigate materials, and observe processes and relationships
- GK.KE.p Ask and seek out answers to questions about objects and events with the assistance of interested adults
- GK.KE.s Explore and describe various actions that can change an object's motion such as pulling, pushing, twisting, rolling, and throwing
- GK.KE.y Recognize, with assistance, examples of technologies (e.g., knife, pencil, computer, pencil sharpener, refrigerator at home or in the classroom)
- AL/LA,KE.d Begin to think problems through, considering several possibilities and analyzing results

“My son comes home after every Keiki Engineering class energized and excited about thinking like an engineer and relating the experiences to the world around him.”

~ Pali Preschool Parent

Fall 2018 (12 sessions): 8/23, 8/30, 9/6, 9/13, 9/20, 9/27, 10/18, 10/25, 11/1, 11/8, 11/15, 11/29

CLASS LISTING:

UNIT/WEEK	LESSON TITLE	TECH TOOLS
Kidz4Bots	What is Code?	BeeBot®
Kidz4Bots	Sequencing in Coding	BeeBot®
Kidz4Bots	Forms of Code	Ozobot®
Kidz4Bots	Coding for Design	Ozobot®
Kidz4Bots	Compound Code	BeeBot®
Kidz4Bots	Testing Compound Code	BeeBot®
Kidz4Bots	Debugging	BeeBot®
Kidz4Bots	Putting Compound Code Together	BeeBot®
Kidz4Bots	Coding Functions	Ozobot®
Kidz4Bots	Mapping Out Our Options	Ozobot®
Kidz4Bots	Choosing the Best Option	Ozobot®
Kidz4Bots	What We've Learned	BeeBot®, Ozobot®, (intro) Scratch Jr®

CONTACT INFO: Phone: (808) 389-0077
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The Tinker & Do Academy and Keiki Engineering are products created by HI FusionED, a Hawaii non-profit organization dedicated to fostering student interest in science and technology. © 2018 HI FusionED. All rights reserved.



Keiki Engineering – Fall 2018 Application (August 23 to November 29, 2018)

Cost: \$380.00/child for 1x/week for 12-week session. Maximum class size: 15 students.
Enrollment is on a first-come, first-served basis. One session offered during Fall 2018:

Kidz4Bots Thursdays (2:30-3:30pm)

8/23, 8/30, 9/6, 9/13, 9/20, 9/27, 10/18, 10/25, 11/1, 11/8, 11/15, 11/29

Please complete the following form and return with payment of \$380.00* (check or cash):

- Please remit checks to: HI FusionED. Tuition is non-refundable. There will be a \$35 returned check fee and \$35 for each subsequent returned payment.
- Mail to: HI FusionED, P.O. Box 10653, Honolulu, Hawaii 96816.
- PAYMENT DEADLINE: August 9, 2018 noon HST

PLEASE PRINT:

Child's Name (First and Last) _____

Nickname _____ Sex _____ Birthdate _____

Class _____

Parent's/Guardian's Name (First and Last) _____

Parent's/Guardian's Email Address _____

Contact Phone Numbers (in case of emergency):

Cell Phone _____ Work Phone _____

You will receive an email confirming enrollment prior to the first class. Please email Erin at enhorner@gmail.com with registration questions or call (808) 389-0077.



RELEASE AND WAIVER OF LIABILITY (Required)

Date: August 23, 2018 to November 29, 2018

Activity: **The Tinker & Do Academy at Kamehameha Elementary – 2018 Fall Session**

Location: Kamehameha Elementary School, 225 Bishop Drive, Honolulu, Hawaii 96817

I hereby agree to hold harmless, and to release and forever discharge HI FusionED and all of its officers, agents (including any third party designated and approved by HI FusionED at any time), employees, successors and assigns acting officially or otherwise, from any and all claims, actions, or causes of action, on account of any loss or damage to property, personal injury or death, whenever they may arise, including aggravation of any preexisting condition, suffered by me, whatever the cause, including those damages, injuries, or deaths resulting from any defect or any error, act, or omission of any HI FusionED agent, officer, employee, volunteer, or third persons.

This hold harmless agreement covers, but is not limited to, any property damage, personal injury, or death occurring during or as a result of my participation in the above activity, including, but not limited to, travel to and from the activity, set up and clean up and all tournament participation.

I also agree to the terms of this agreement will fully indemnify HI FusionED for any property damage, personal injury, or death which he/she may cause through negligence, willful misconduct or deliberate unauthorized use of any equipment or property belonging to HI FusionED including all court costs and reasonable attorney’s fees. Further, I agree to the terms of this agreement will fully indemnify HI FusionED for any and all costs associated with any medical treatment and/or emergency response that may need as a result of personal injury or death associated with this activity, or HI FusionED property. The right of indemnification shall inure to the benefit of all successors in interest and assigns of HI FusionED and the corresponding burden shall rest with any successors or assigns of mine and all those parties subject to this agreement, whether now known to me or as yet unascertained.

I am entering into this agreement knowingly, voluntarily, and without duress or inducement.

Print Name (Participant)

Signature (Participant)

Date

Print Parent/Legal Guardian Name (if Participant is a minor under 18)

Signature of Parent/Legal Guardian
(if Participant is a minor under 18)

Date

Consent and Release for Photographs, Audiotapes, Videotapes and Interviews (Voluntary)

Project Name: The Tinker & Do Academy at Kamehameha ES Date: 08/23/18-11/29/18

Participant's Name (PRINT Last, First): _____

Mailing Address: _____ City: _____ State: _____ Zip: _____

Home Phone: _____ Mobile Phone: _____ Email: _____

I, (Participant's name: First, Last) _____, hereby grant my irrevocable consent and release to HI FusionED, its successors, assigns, and licensees, and anyone who HI FusionED authorized for all uses, reproductions, translations, modifications and publications, in whole or in part, individually or otherwise, of any and all of the following:

- Photographs, film, audiotape or videotape or other recordings taken of me or likeness or other aspects of my identity on including, without limitation, the substantive content and their original creations portrayed therein, my name or pseudonym, performances, likenesses, persona, endorsements, celebrity status and relevant biographical data, whether or not specifically attributed to me and whether in the same or a different medium, now know or hereafter invented, (collectively referred to as the "Work").
- My consent extends to all uses of the Work in whole or in part, or distorted or in composite form, for any purpose whatsoever including, without limitation, any illustration, promotion, advertising, or trade (for profit or not) in any form which the Work, or any part thereof or derivation therefrom, may be used, disseminated, published, distributed, broadcast, transmitted or displayed.
- I hereby release and discharge HI FusionED, its successors, assigns, licensees, contractors, agents, and representatives, and any and all authorized user of all or any portion of the Work from any and all claims, demands, liabilities, causes, causes of action or damages whatsoever including, without limitation, claims pertaining to defamation and/or invasion of privacy in any way arising out of, connected with, or relating to all or any part of the Work and any uses thereof.
- I hereby waive any right I may have to inspect and/or approve the text, finished product, and other copies of the Work or any variation thereof allowed above and any objection to the lawful use to which they may be applied.
- I have full authority to grant the Consent and Release expressed herein and I agree to defend, indemnify and hold harmless HI FusionED and all other authorized users of the Work from and against any and all claims or demands of my employer and/or other third parties regarding the Work and/or any rights covered by this instrument including, without limitation, claims of trade secret misappropriation, privacy right violations, and defamation. I have read the foregoing Consent and Release and fully understand and agree with its contents.

I understand and will abide by the provisions of this contract.

Print Name (Participant)

Signature (Participant)

Date

Print Parent/Legal Guardian Name (if Participant is a minor under 18)

**Signature of Parent/Legal Guardian
(if Participant is a minor under 18)**

Date