



Educational Foundation of Lake County



2018-19 Duke Energy Foundation STEM Grant

DEADLINE October 18, 2018 4:00 pm Foundation Office via Jackrabbit or Email

- This Classroom Grant is for 2018-2019 school year.
- Funds must be used to address a STEM related project.
- All funds must be used by May 1, 2019. A final program evaluation must be submitted by May 15, 2019.

Contact Information	
Applicant Name: Philippe Gamain	Position: 4 th Grade Math Teacher/STEM Coach
School: Astatula Elementary School	
Address: 13925 Florida Avenue, Astatula Florida 34705	
Phone: 352-343-1334	Fax:
Email Address: gamainp@lake.k12.fl.us	

Detailed Project Information
Project Title: Discovering STEM through Robotics
What priority area(s) will your project address: Basic principles of Robotics and 4 th grade Math
What is your estimated start date: November 15 th , 2018
Estimated number of teachers who will participate in this project: 5
Estimated Number of Total Students Impacted by project: 200
Grade Levels to be Addressed: 4 th and 5 th grade

Program Background: Astatula Elementary School has been a STEM school since 2011. From its inception the 4 th Grade STEM team has won the Lake District Championship twice and placed in the top ten multiple times. Last year, in a collaborative effort, teachers from AES formed two VEX IQ Robotics teams - one of which went on to compete at the World VEX IQ Robotics Championship in Kentucky. Our goal this year is to win the STEM Bowl competition in March and raise the students coding, programming, and math skills to an all new level.
Project Summary: Students will build 8 models using basic principles of robotics then move on to more complex concepts of programming with the introduction of sensors, logic gates, and conditional statements. They will also build ramps, obstacles, and challenges for the robots using Exploragons, Keva blocks (already have) along with other materials.
Need: Engino Discovering STEM Robotics Platform Pro Edition (3) IEF-351227 Exploragons Gr. 4+ (1 Class Set) IEF-520404
Project Goals and Objectives:

The goal of the project is for our student to learn the basic principles of robotics while acquiring new math, geometry, and programming skills.

Evaluation Plan: Our school has a robotics team that competes on an international level. This project will create a foundation in fourth grade on which the students can build. Our STEM team will also compete at the district level in March 2019 against other STEM schools.

Budget

Category of Expenditure		Dollar Amount	Related Activity
Computer Hardware			
Computer Software			
Other Equipment (not computers)	3	329.95	Engino Discovering STEM Robotics Platform Pro Edition (3 kits) Exploragons GR.4 th + (1 class set)
	1	89.95	
Competition Registration Fees			
Program supplies			
TOTALS		1079.80	

Program Approved By: _____

Robert Lee
Principal

Funds Payable to: _____

Astatula Elementary School

Address: _____

13925 Florida Avenue
Astatula FL 34705

Phone: _____

352 343 1334 Email: gameinp@lake.k12.fl.us

Requesting party has read and agrees with the funding policies of the Educational Foundation.

Signed _____

[Signature]

Date _____

10/2/2018

To be completed by foundation staff/board

Program meets Duke Energy Foundation's Mission/ Funding Policy _____

Y

N

Director Recommendation: _____

Executive Board Recommendation: _____