



## 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.

<b>Contact Information</b>	
Applicant Name: Philippe Gamain	Position: 4 <sup>th</sup> 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	

<b>Detailed Project Information</b>
Project Title: Discovering STEM through Robotics
What priority area(s) will your project address: Basic principles of Robotics and 4 <sup>th</sup> grade Math
What is your estimated start date: November 15 <sup>th</sup> , 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 <sup>th</sup> and 5 <sup>th</sup> grade

<b>Program Background:</b> Astatula Elementary School has been a STEM school since 2011. From its inception the 4 <sup>th</sup> 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.
<b>Project Summary:</b> 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.
<b>Need:</b> Engino Discovering STEM Robotics Platform Pro Edition (3) IEF-351227 Exploragons Gr. 4+ (1 Class Set) IEF-520404
<b>Project Goals and Objectives:</b>