



News From

# STEMVision Inc.

Empowering the Next Generation in STEM

Volume 1  
Issue 1

## Spring 2020

### Inside This Issue:

- Our Introduction
- Our Company
- Our Community Engagement
- An Article for Everyone
- Upcoming Webinars for STEM
- Snap! Crackle! Brainteaser!

### Link to Website:

<https://www.stemvision.org/>

### Contact Us:

[stemvisioninc@gmail.com](mailto:stemvisioninc@gmail.com)

### Connect with Us:

Facebook

Twitter

## Our Introduction

Hello, I am Anika and on behalf of Aarush, Arko, and myself, I welcome everyone to our STEMVision family. This is our first newsletter and I will introduce you to our founding team members.

Aarush is a junior at King High School in Tampa, FL. Aarush has been an active participant and volunteer at North South Foundation, and last year, he taught SAT Math to students across the US. From a very young age, he has participated in various math, science, and robotics competitions both at school and outside of school. He enjoys hanging out with his friends, traveling, watching TV, and playing piano.

Arko is sophomore at King High School in Tampa, FL. Arko is passionate about robotics & engineering, mathematics & technology, playing the trumpet in the King Lion Marching Band, and playing in the King High School soccer team. He has been participating in Robotics since he was in third grade. You might have seen him teaching in the robotics camps at FLATE, Python Programming, or math courses.

I am a 7<sup>th</sup> grader at Benito Middle School. I am passionate about math, science, and robotics. I enjoyed doing FLL and now I am part of an FTC team. In my free time I enjoy doing art, dance, and piano. I love reading, having fun with my friends, and making new friends. Last summer, I actively volunteered at Feeding Tampa Bay and I personally felt there is nothing more rewarding than the power of giving back to the community.

Arko and Aarush have been working together for the past eight years in robotics, mathematics and STEM competitions. This team will be teaching more Analytical Math, Mathcounts, EV3 programming, Programming for FTC, CAD, and 3D printing in the summer.

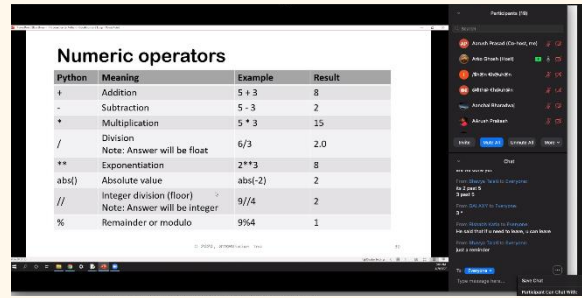
## Our Company

We are a non-profit company engaged in empowering global learners in STEM education. We roll up our sleeves, donate our time, and our knowledge to teach STEM skills so that our communities can be better prepared to meet the challenges of our global workforce. We do this every day because STEM academics are in the frontier of innovation and we want to be the trailblazers for our generation - every day.

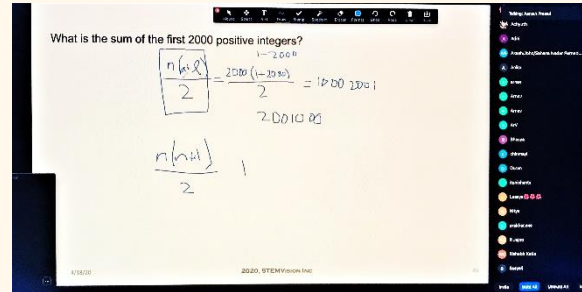
We guide learners in Mathcounts, math analysis, science, programming, and robotics that helps nurture passion, strength, and critical thinking in STEM education. We offer free webinars and live practice sessions, instructional supplemental resources, and support for students in kindergarten through 12th grade.

# Our Community Engagement

During the COVID-19 pandemic and the tiring uncertain period of social isolation, STEMVision actively associated with students K-12 through free online sessions for Analytical Math, Mathcounts, AMC-8, and Python Programming. Studies on social isolation have demonstrated that human beings are social animals and a lack of social relationships negatively impacts the development of the brain's structure. To keep our community, as well as ourselves healthy and active, we initiated several free STEM activities. It was the best way to keep our brain and body healthy while being at home during this fluid time. Our online classes turned out to be a huge success with over one hundred families registering. Most of them were local students, with a few exceptions from New York, Texas, California, and India. We even launched our website with some free STEM resources like jeopardy and quizzes for students.



| Python | Meaning                                                  | Example | Result |
|--------|----------------------------------------------------------|---------|--------|
| +      | Addition                                                 | 5 + 3   | 8      |
| -      | Subtraction                                              | 5 - 3   | 2      |
| *      | Multiplication                                           | 5 * 3   | 15     |
| /      | Division<br>Note: Answer will be float                   | 6/3     | 2.0    |
| **     | Exponentiation                                           | 2**3    | 8      |
| abs()  | Absolute value                                           | abs(-2) | 2      |
| //     | Integer division (floor)<br>Note: Answer will be integer | 9//4    | 2      |
| %      | Remainder or modulo                                      | 9%4     | 1      |



Perseverance is seen above on its' first test drive.

(Source: NASA/JPL-Cal tech [Public Domain])

## An Article for Everyone

NASA has a long-term plan of sending people to Mars. To attain that epic task, for years, NASA has been sending rovers to Mars to learn more. In 2012, it landed a rover named Curiosity on Mars. The next mission is to send Perseverance to Mars, and it is expected to launch on July 17, and land on Mars on February 18, 2021. It is vital that there is a reliable supply of oxygen and water for man to land on Mars. Part of the rover's job will be trying to locate water below the surface of Mars. The rover will also be testing a system called MOXIE (Mars Oxygen In-Situ Resource Utilization Experiment). MOXIE, which is about the size of a shoebox, is meant to pull carbon dioxide out of the Martian atmosphere and use it to create oxygen.

## Upcoming Webinars for STEM

May - Our team will be busy hammering their AP (Advanced Placement) Exams so no webinars.

June - Stay tuned for FREE Webinars for Python Programming multi-week course, EV3 Programming multi-week course, CAD and other fun STEM webinars. Check our website <https://www.stemvision.org/> as we are constantly updating the information.

## Snap! Crackle! Brainteaser!

What is the unit's digit of  $2020^{2020}$ ?

Connect with us on:



Link to website:

<https://www.stemvision.org/>

Contact Us:

[stemvisioninc@gmail.com](mailto:stemvisioninc@gmail.com)