

# Thomas A. Edison Career & Technical Education High School

165-65 84<sup>th</sup> Ave. \* Jamaica, New York 11432 \* (718) 297 – 6580 \* Fax (718) 658-0365

Mr. M. Ojeda, *Principal*

Mr. S. Zainule, *Instructor*

## SUMMER ASSIGNMENT – ROBOTICS

### INCOMING JUNIORS

#### Assignment:

Compose a research report that draws from your own experiences as well as outside resources (book, papers, etc.). As a junior in the Robotics class, it's necessary for you to be familiar with the following:

In your research, spend time answering:

How are Science, Technology, Engineering and Math (STEM) related?

The activities you participated in as a sophomore used elements from many different disciplines to accomplish specific goals.

Give one example of (choose one):

- A science concept or technique used to accomplish a goal
- A mathematics concept or technique used to accomplish a goal
- A technological concept, technique, or artifact used to accomplish a goal

Finally, summarize in your own words how science, technology, and mathematics work together in order to accomplish real-world objectives.

#### Directions:

Your research publication should be 2-4 pages long; margins must be 1" (top, bottom, left & right), double-spaced, size 12 Times New Roman Font in Microsoft Word or other similar word processor. Your report should be professional in tone and style, and incorporate information from other robotics research where appropriate. You should make effective use of illustrations and other visual aids (charts, graphs, etc.) wherever appropriate.

#### Due Date:

Your research paper is due to Mr. Zainule by **Friday, September 16, 2017**. The mark you earn will count as a test grade for the first marking period.

This is an individual assignment. It is appropriate to review and give feedback on other students' papers, to give credit to those who helped you, and to cite all references you used. It is not appropriate to share or take pieces of other students' reports to use in yours, to allow someone to copy yours, or to use pictures and/or other materials from outside sources without proper citation.