

# Thomas A. Edison Career & Technical Education High School

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Mr. M. Ojeda, *Principal*

Mr. S. Zainule, *Instructor*

## SUMMER ASSIGNMENT – ROBOTICS

### INCOMING SENIORS

#### Assignment:

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

In your research, spend time answering:

Brainstorm a list of hand tool and power tools that can be used to construct a robot in class.

Explain the advantages and disadvantages of using hand tools versus power tools?

Explain all safety precautions necessary for both categories of tools.

Choose two of your brainstormed hand tools and power tools and explain its function, the correct method of use and the cost of each tool.

#### 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.