

# **Cottonwood Creek Elementary School**

## **Robotics Application for CCES Robotamus**

As a member of CCES Robotamus, you will have the distinction of representing CCES in a high level robotics competition. CCES Robotamus is a student based team and we need students to be educated in many different roles. The success of each team is crucial to CCES Robotamus overall success. Please look at the jobs below, as you will work together as a team to complete each role in order for the team to be successful.

**Engineering Notebook**– As the manager of the design notebook your role will be to keep the notebook on schedule, divvy out sections, edit and smooth out the finished product. This person will not be expected to write the entire document. Ideally, this is a person that is very dependable and can carry the weight of the project by working hard and making sure other students complete their work on time! Some students will be selected to work on specific parts of the engineering notebook. These sections are as follows:

- 1. Meet the team**
  - a. team profiles and interests**
- 2. Meeting and build notes**
  - a. build, STEM research and engineering (design)**
- 3. Programming**
  - a. motors and sensors**
  - b. autonomous control**
- 4. Our first competitions**
  - a. Offense & Defense Strategies**
- 5. Competitions- depending on how many we are involved in.**

**Photographer /Sketcher** – This position requires a student who is able to photograph all aspects and stages of the playing field and the robot itself. You must be able to design & edit images and text. These images will be used in the design notebook. Must be willing to sketch designs.

**Programmer** – He/ She must be able to use Modkit to program the controller used by the robot. Software & tutorials will be provided to help you be successful. The controller is similar to a PlayStation or Xbox controller with gyroscopic capabilities.

**Builder** – As a member of the Build Team you will create the robot we use to compete at competition. You will be charged with breaking down and recreating detailed suggestions from the design team. You will need to coordinate with the rest of the team to break down the robot into several more simple and manageable projects.

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