Pre Engineering Tech A/Robotics
Mr. Walls
Room 806
996.4970 xt 7102
email – gwalls@pylusd.org

Tiger Electronics

2 September, 2008

Welcome to Pre Engineering and Robotics!

In this class you are expected to do a lot of hands on problem solving. You will be experimenting with basic electronics, nitrinol wire, Boebots, motors and gear ratios, sensors, feedback and sensor control, bridge modeling, propulsion experiments, CAD drawing and design. Which means, you are going to make stuff.

We will be using STAMP microprocessors, equipment and text provided by Parallax. These are programmed using PBASIC. The MIT Handyboards and associated Legos are programmed using Interactive C. We will also use The Robotics Primer by Maja Mataric and Robotic Explorations: An Introduction to Engineering Through Design by F. Martin.

The designs that you implement and the professional manner in which you develop your ideas will determine you grade. Specifically, electronic projects will be worth 50% of your grade. Research papers, flow charts, and project questions will be worth 20% of your grade. Exams and quizzes will be worth 25% of your grade. Five percent of your grade will be determined by your ability to use time wisely.

Grades will be available on Aeries and will be updated weekly.

The equipment we are using is relatively expensive and potentially dangerous if misused. You will be economically and academically responsible for any damage to the equipment caused by mishandling. Irresponsible students will be dropped from the class.

Please bring the bottom of this contract signed by you and your parents indicating that you will adhere to the above guidelines and agree to follow the rules. Authorizing this contract is your first homework assignment.

Have a great year!

_____
Student name (print) student signature date

_____
Parent signature date

_____
Email or daytime phone number