Registration Form

TEAM INFORMATION

Team Name/Project Title: Project Censored

Department: Electrical Engineering

Faculty Advisor: Brian Atkinson

Team Members: Yuiry Komlev, Mulbah Dolley, Brandon Nguyen, Anthony Smith

PROJECT INFORMATION

Description:

Help Martin Marietta reduce the company’s downtime from machinery failure by monitoring critical infrastructure of the plant.

Abstract:

Martin Marietta has trouble with equipment failure due to a lack of consistent monetarization and maintenance. When the equipment fails, the entire plant must shut down to begin repairs. Our goal is to collect data to provide trend analysis to predict failures and life of equipment. We will use temperature, vibration, air, and hydraulic pressure sensors to monitor equipment. The data will be sent wirelessly to the central processing location where we will create a GUI, Graphical User Interface, for the employee to monitor. With the information, the GUI will show if the mechanical equipment is overheating, has leaks or is about to fail. The information will also be stored in order to provide trend analysis for equipment life expectancy.