Capstone Project Proposal

Project Number: 19
Project Title: Smart Rack
Project term: Spring 2017

Student names (last and first name) and contact information (please start with the team point of contact):

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Capstone Project Proposal  
Team number: 19  
Title: Compute Workload Optimization and Environmental Awareness

The Smart Rack is an endeavor to make server management easier for data management companies. It is an open source platform for the racks that will make data server management simple and inexpensive. A user will be able to hook up sensors and LEDs to the main controller which can also connect to a maintenance network. The controller will respond to unadvantageous conditions that the sensors pick up in the servers, send a signal to through the network, and manipulate the LEDs to display specified problems with servers. This will allow data management companies to troubleshoot their servers much more quickly and it will help reduce the overall cost of energy spent on data management and maintenance.