

Abstract

This paper documents the senior project of Blake Ahrold and Torrey Plana. This project was created to provide a solution to the problem of small to medium Sized enterprises (SMEs) being under represented by lean consulting companies. The project was at first intended to be a lean consulting startup and then pivoted to The Systems Optimization Club. A project charter, Gantt chart, and business model canvas were created for the startup and used as guidelines in the creation of the Systems Optimization club. The club is to be run like a lean consulting company. The club will provide teams of students for local SMEs to optimize their systems utilizing industrial engineering tools and methods, and those applicable from other majors, and in return students will receive industry experience and expand their professional network. The club worked with two manufacturers for projects, Hydrogen Junkie and Zodiac Aerospace's cabin Interiors division. Standard Times, spaghetti diagrams, and a facilities layout were created for Hydrogen Junkie. At Zodiac Aerospace, twenty two Systems Optimization Club members were split into 7 teams and worked on projects concerning standard times, ergonomics, 5S, workstation redesign, and value stream mapping. These projects will continue through the end of the year and into Fall 2015.