
Final Project

1. Objective

The objective of this project is to design a closed-loop control system that makes use of a controller (analog or discrete) to control a single-input single-out (SISO), or even a multi-input multi-output (MIMO) system. The choice of the controller: P, PI, PID, Lead, Lag, etc., as well as the design method: time domain, frequency domain, or state-space, is left up to you what method to use to use.

2. Deliverables

Keeping in mind a particular problem/project, and before you start the design, you need to submit a proposal

2.1 Proposal

One-page document containing three main points: a) the problem, b) methodology (controller type, design method, analog or discrete), c) hardware/software to be used in the design. The proposal will not be graded, but it will be used to standardize the degree of complexity of the projects amongst all teams.

2.2 Final Presentation

The presentation on the project will be graded (10 points) and will consist on a 10-minute talk which may include: a) title of the project, members of the team, date, etc, b) description of the project, c) design methodology, d) plots of simulations and actual results, e) future work and recommendations.

2.3 Final Report

The report will be graded (10 points) may have the same format. However, the length of the report should be equal to 7 or less pages.