

Documentation Plan

This is a brief document that outlines who the users are, what documentation they will need, and how we will provide it for them (with an explanation of why this is appropriate).

This documentation plan describes what our final system will be like but does not contain the actual final documentation. The final documentation itself will be included with the final code deliverable.

User Documentation

- Our users will consist of robotics students at a variety of levels. There is no need for different sections for different user types, as all users will have access to the same tools.
- There will be documentation provided on the individual pages we've added, as described below:
 - Bug Algorithms:
 - Each Bug Algorithm page will include detailed instructions on its functionality.
 - PID:
 - This software provides a PID (Proportional, Integral, Derivative) controller visualization tool that simulates and displays the controller's output and its effect on a given process value. The software allows users to adjust the setpoint and PID parameters (K_p , K_i , K_d) in real-time while observing the controller's behavior through an interactive chart.

Admin Documentation

- README.md
 - This will have an overview of the uses of the application, as well as detailed instructions for how to use it.
- Project Overview Video
 - This will walk through every aspect of the application and showcase how to run each algorithm.
- Admin Manual
 - Introduction
 - Dependencies + Documentation
 - Architecture
 - Adding to the Project