Control Law

For simplicity, we looked to make as simple a controller as possible. We started by having each link have its own controller, ideally, both proportional controllers. However, in order to accommodate our earlier simplification of having both links be aligned for the initial movement, we needed the second link to be able to move to a position and have zero error. This resulted in the first link having a proportional (P) controller, while the second link has a proportional-integral (PI) controller.

Block Diagrams