University of Bristol
Faculty of Engineering



Sensors, Signals and Control

## Part 3: PID Implementation, Validation and Retuning in Quanser

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## 1 Transfer Function Definition

Clearly give the transfer function, control architecture and steps of the design process. Provide a table with the controller gains obtained from the theoretical part, from the initial tuning in Simulink, and those finally used in the Quanser. Show the closed-loop output responses for the plant and controller. Overlay in a single plot the responses from [2] and [3] (using the same step and the same initial condition).