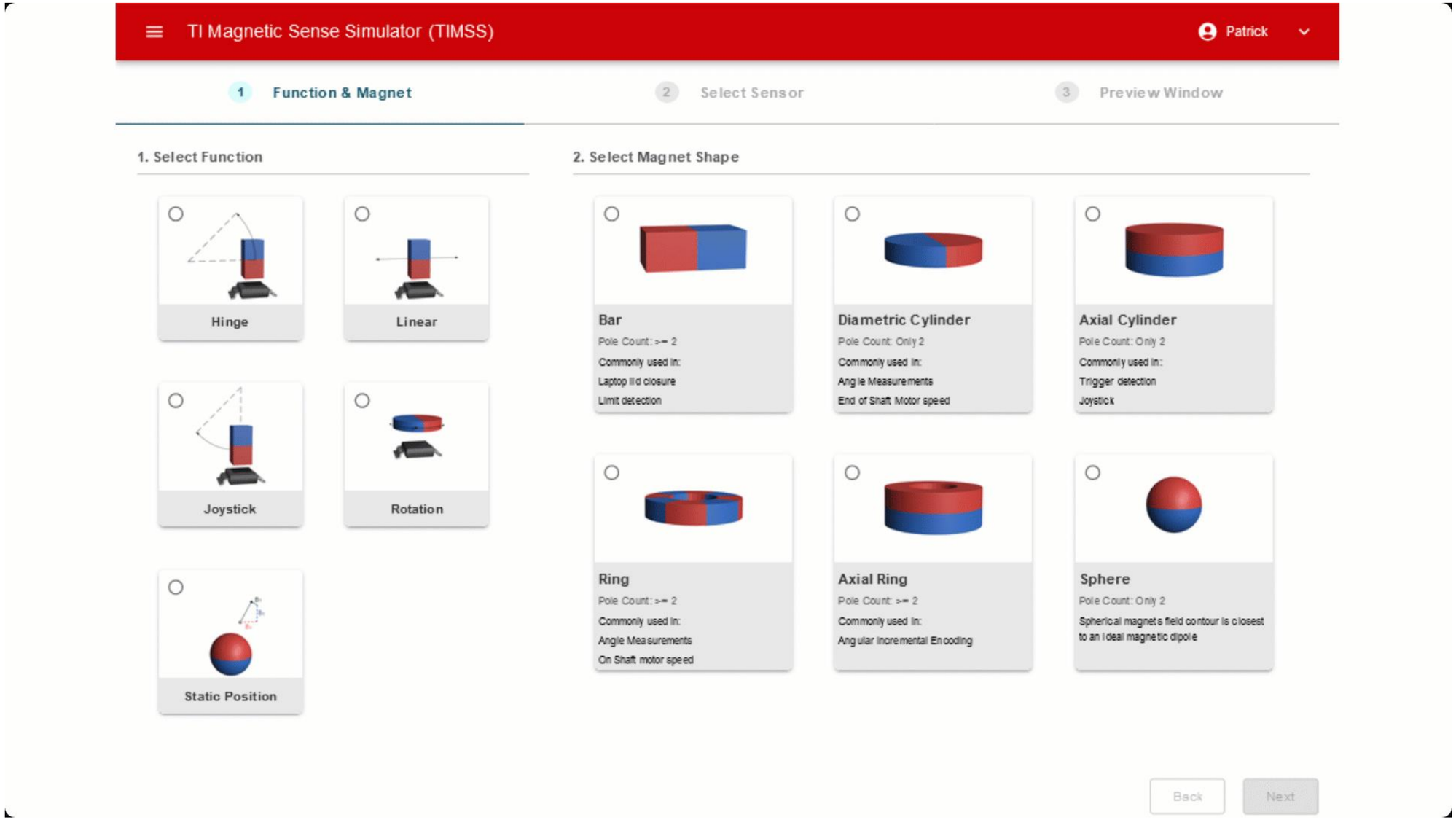
Magnet selection

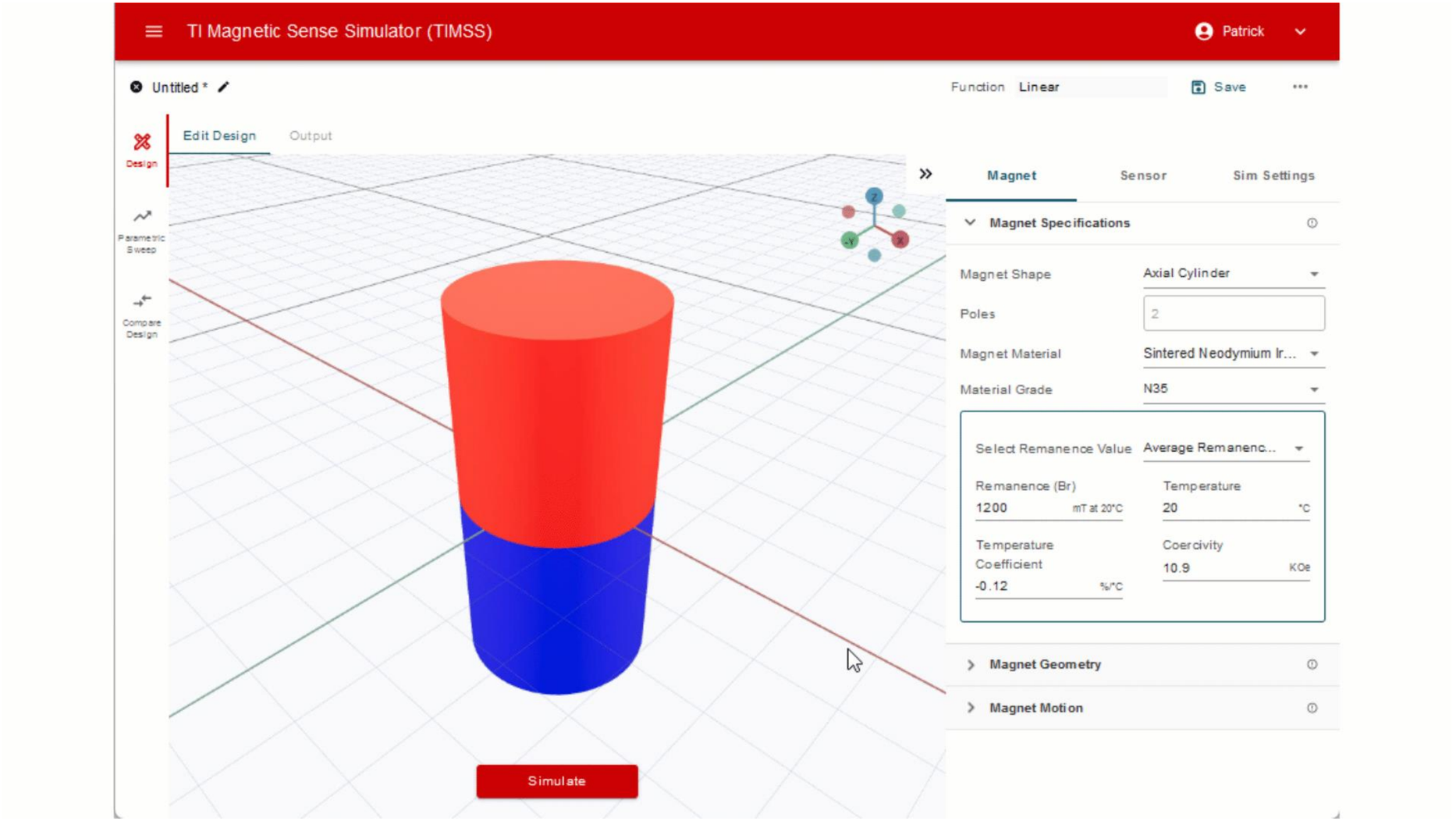
TI Precision Labs – TI Magnetic Sense Simulator

Presented and prepared by Patrick Simmons

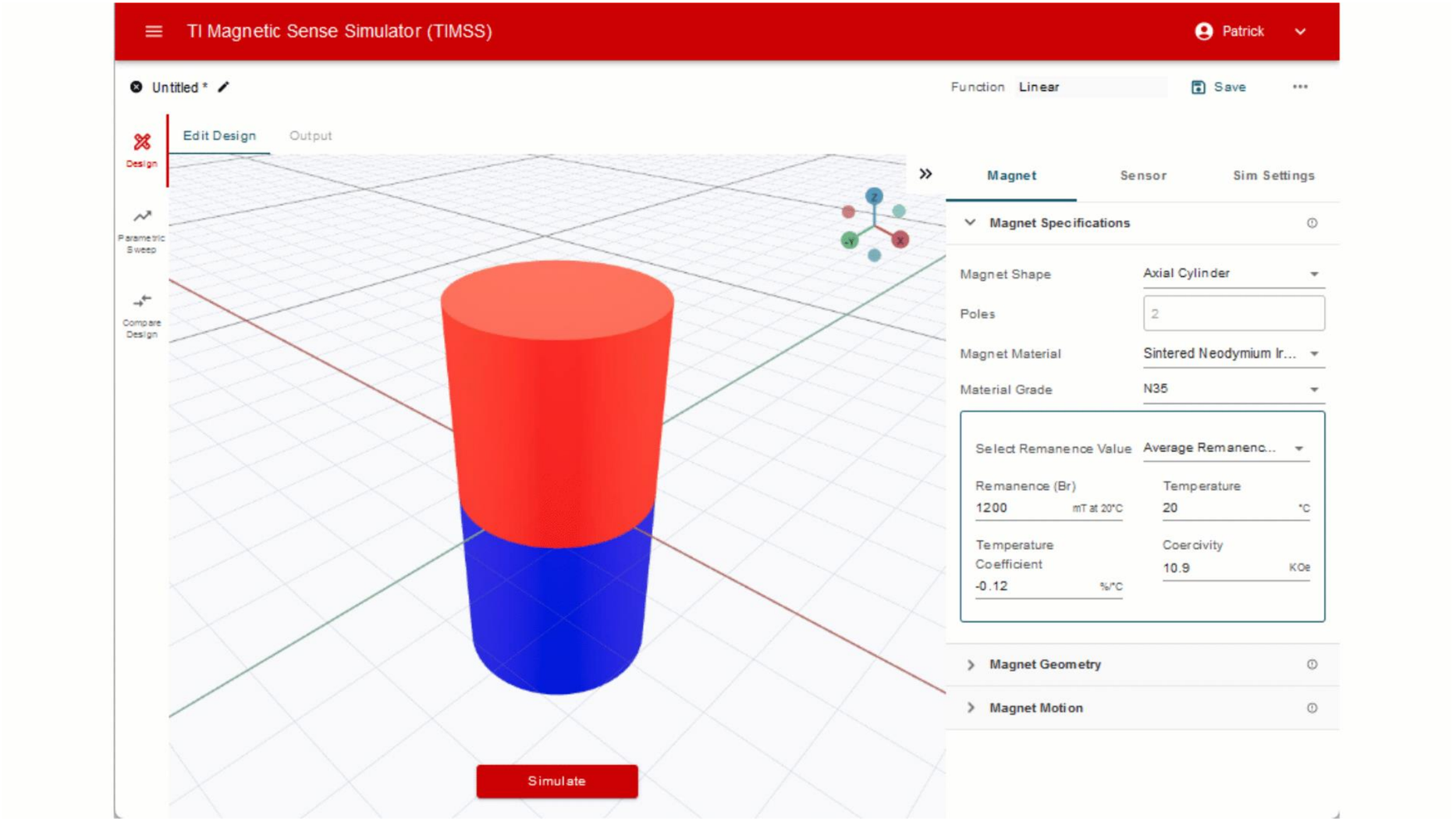
Starting a design – magnet shape



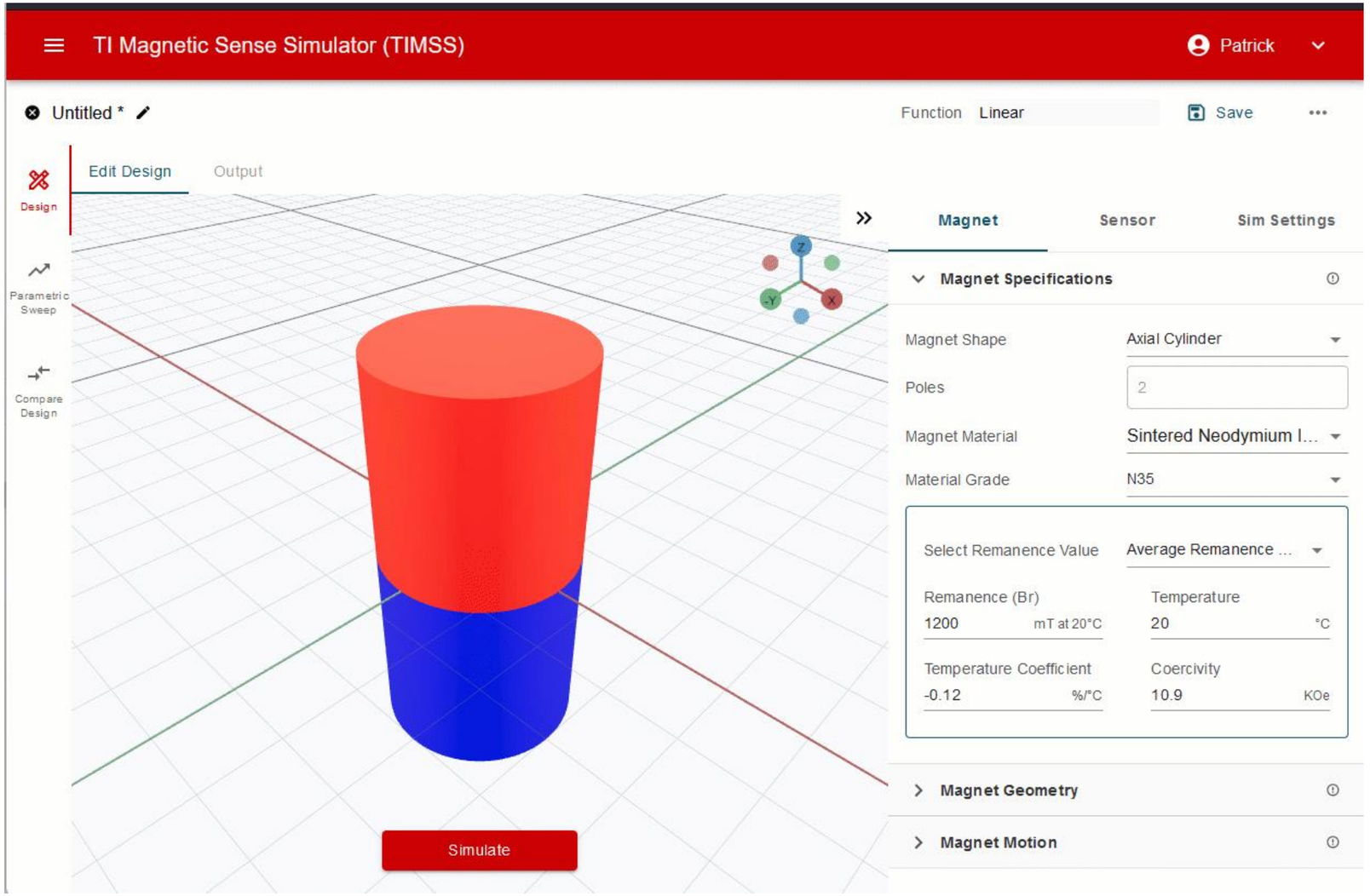
Adjusting magnet selection



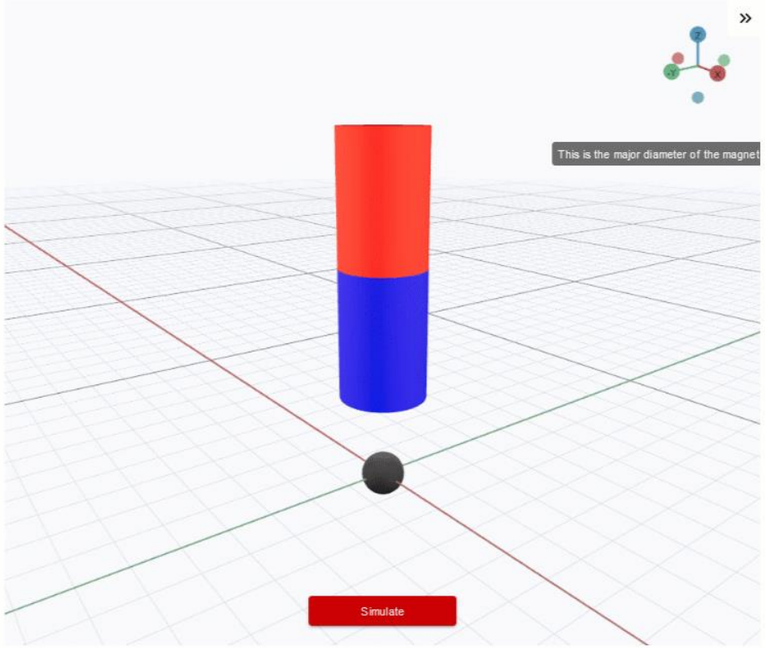
Variables that influence measurable flux

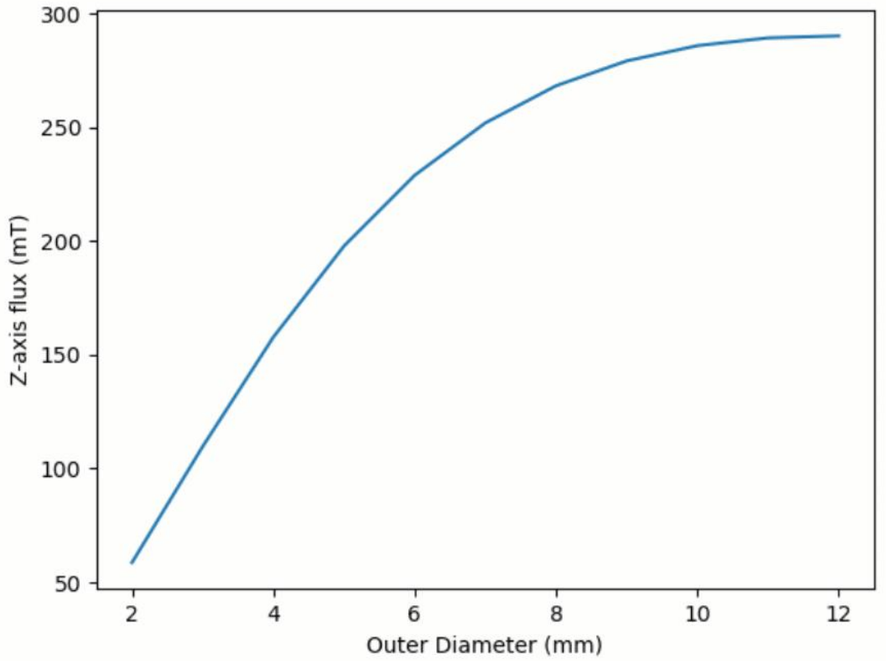


Magnet classes



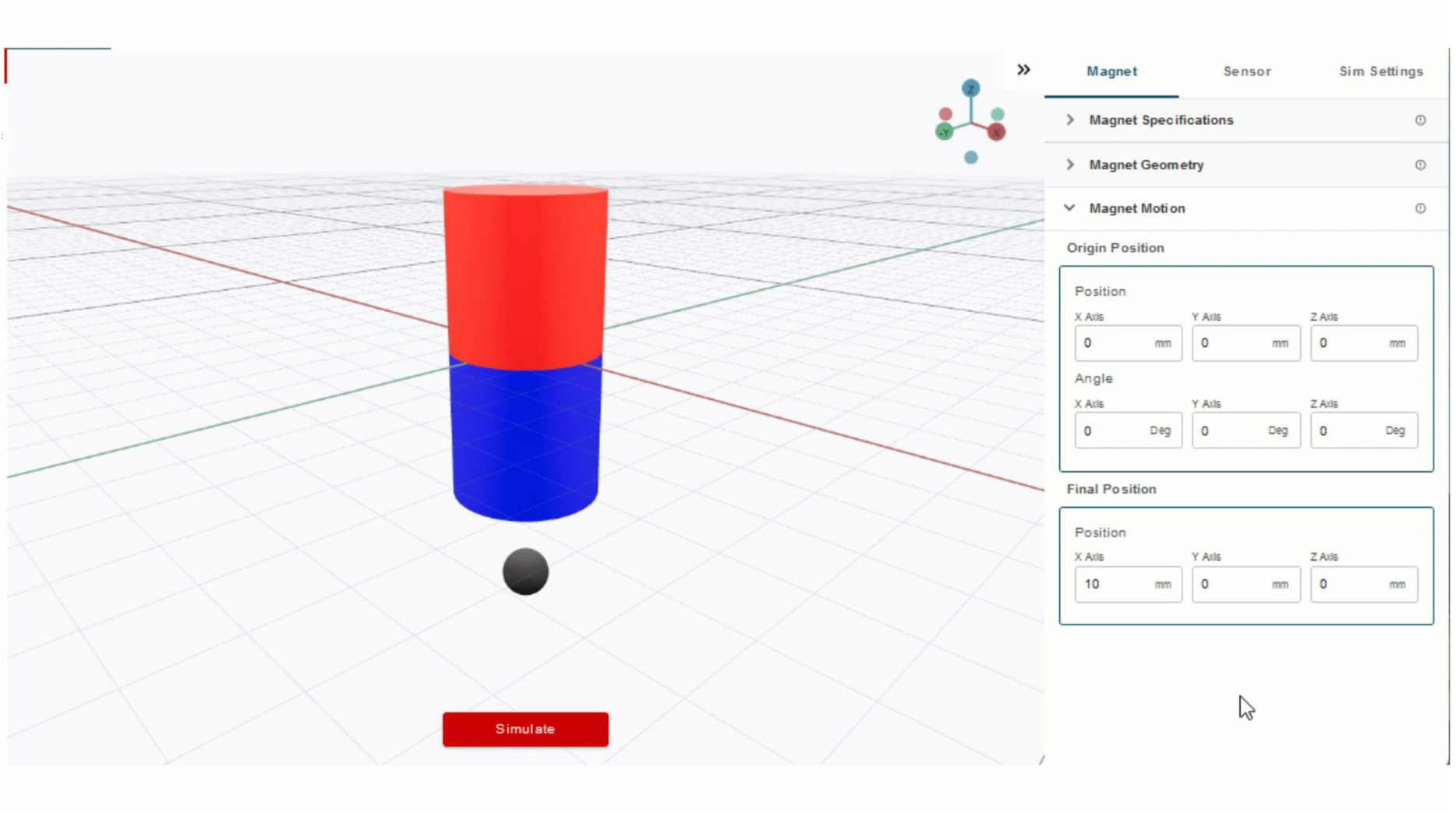
Impact of size on flux



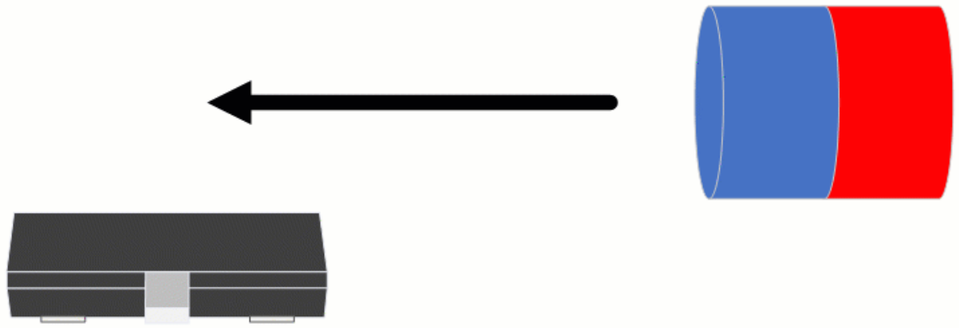


*Exact values subject to design

Impact of magnet position relative to sensor



Flux example



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- TI Magnetic Sense Simulator Product Folder
  https://www.ti.com/TIMSS
- TI Magnetic Sense Simulator User’s Guide
  https://www.ti.com/lit/ug/slyu067/slyu067.pdf
- TI Magnetic Sense Simulator App Brief
  https://www.ti.com/lit/ab/slya083/slya083.pdf
- Position Sensing Demo Video Series
  https://www.ti.com/video/series/position-sensing-demos.html
- TI Precision Labs: Magnetic Sensor Training Videos
  https://www.ti.com/video/series/precision-labs/ti-precision-labs-magnetic-sensors.html
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