

Automatic Dog Door

Creating an Automatic Pet door that can be automatized to allow for ease and security of not having to leave an open pet door which can be a possible breach of security.

The door itself will be constructed with Polyurethane with an Acetal gear and a Stepper motor to turn the gear and lift the door.

The door will have a downward force of 1.46 lb requiring the gear and motor to uphold a torque of 1.1 in*lb

Designing this project taught me a lot about CAD softwares as well as coding for the website. Helped me learn proper ways to implement calculations into design and choose components based on those calculations

