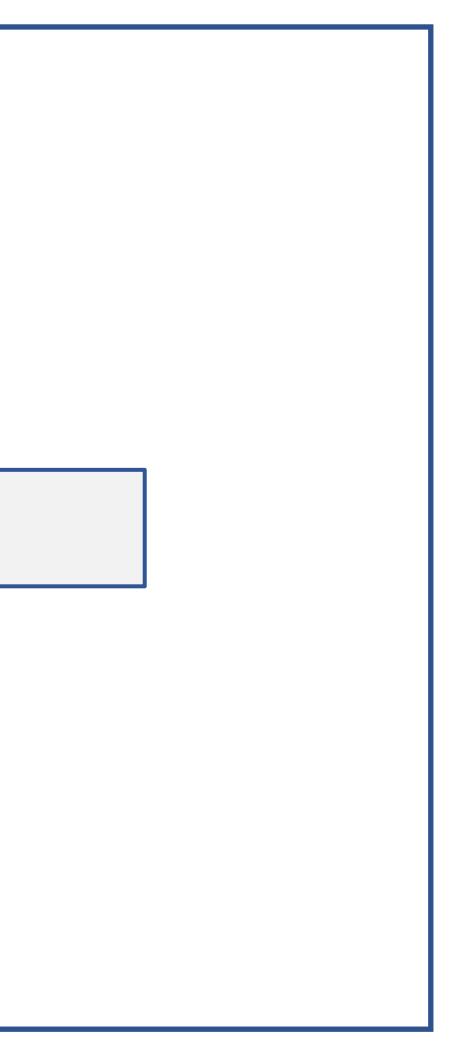
Brevin Banks Mechanical Engineering and Robotics CAD Portfolio

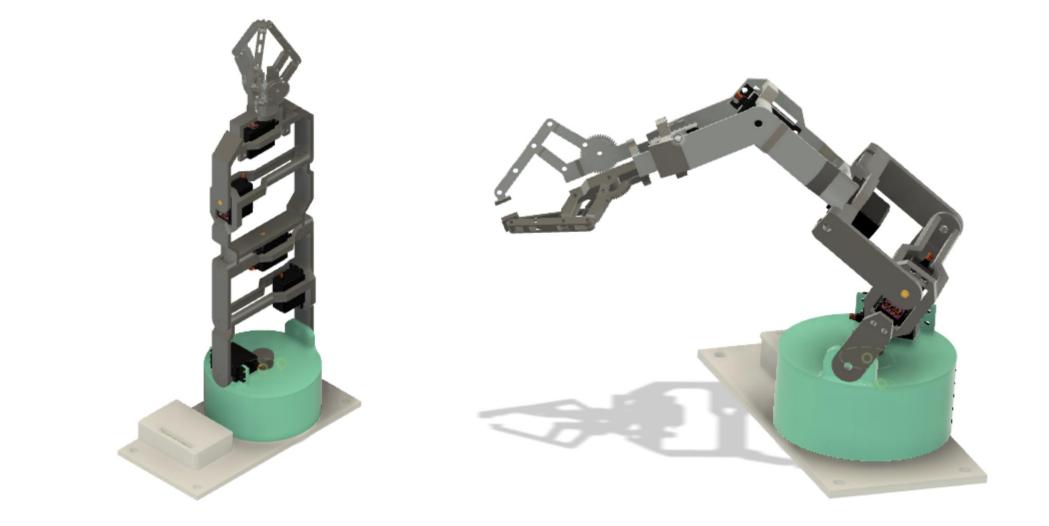
UD: 08/31/2022

Projects



Custom Miniature 6 DOF Robot With Modular Joints



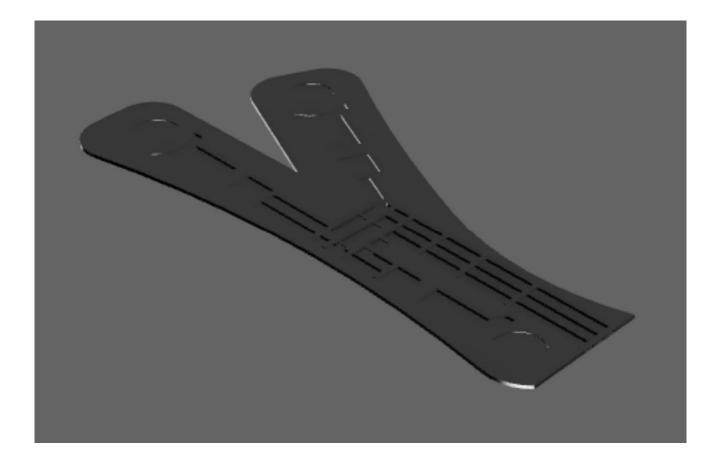


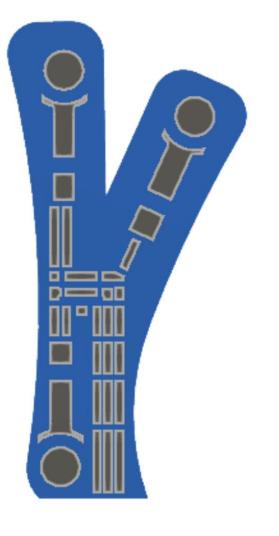
Complex Designs For Basic Control



July 9, 2022







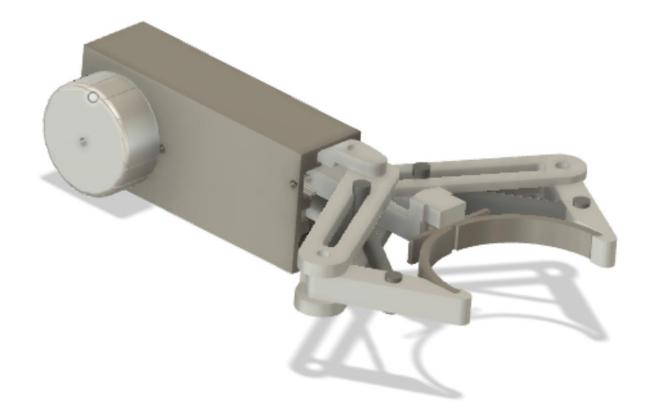
Practical Designs

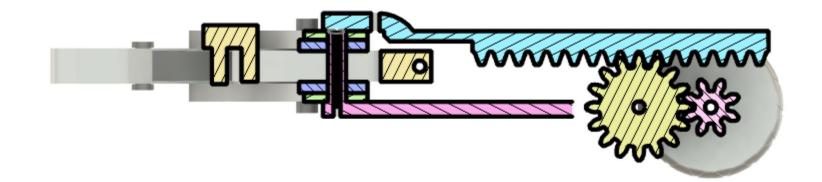
Prosthetic Shoe Haptic Sensor Insole

Feb 2, 2020







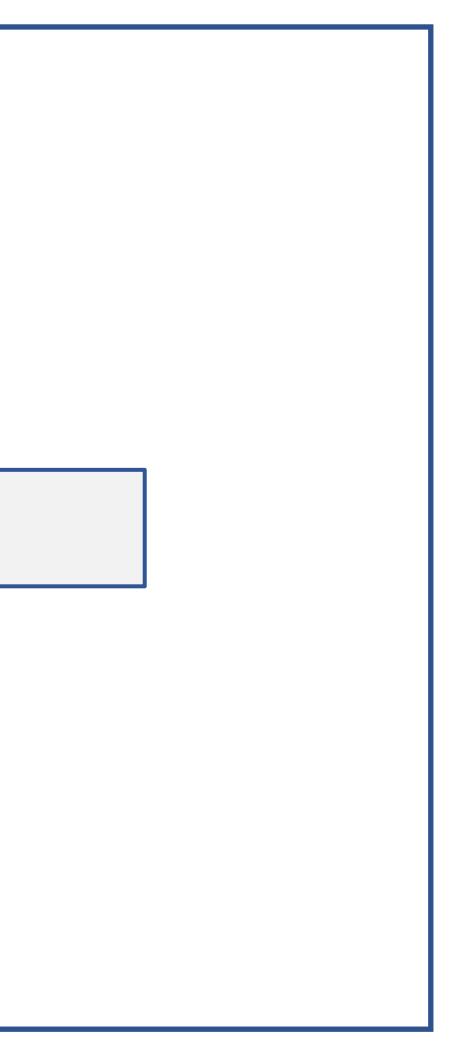


Kinematic Designs

Medical Clamp Opener Device

Jan 15, 2020

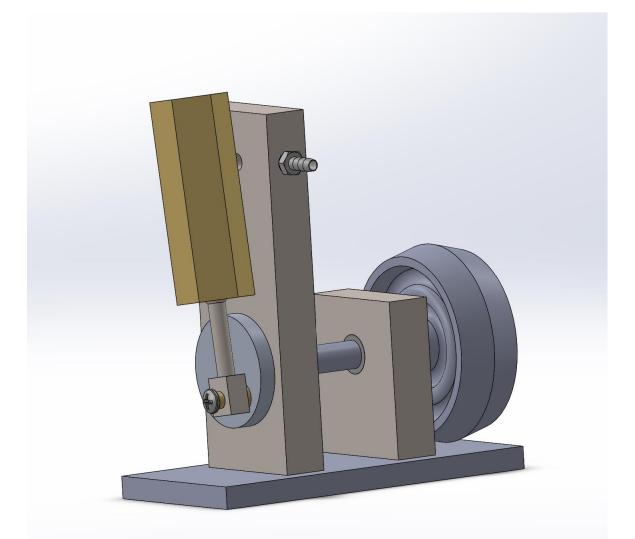
CAD Skill Items

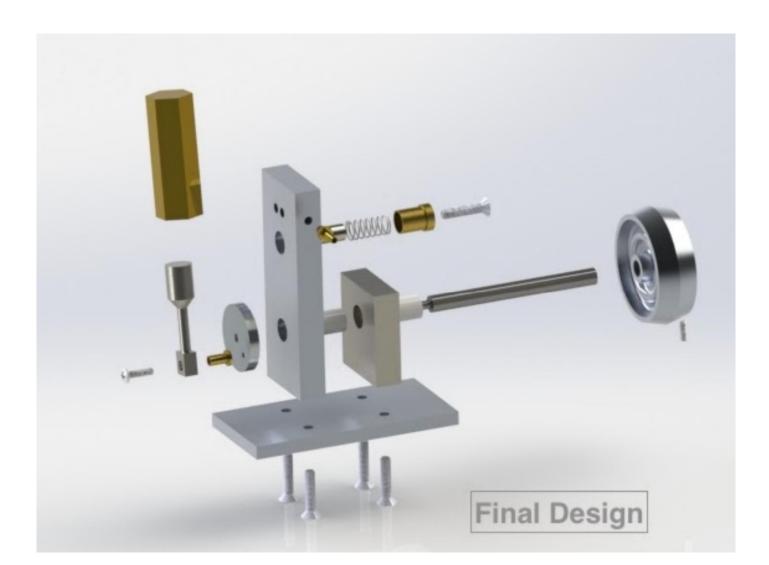








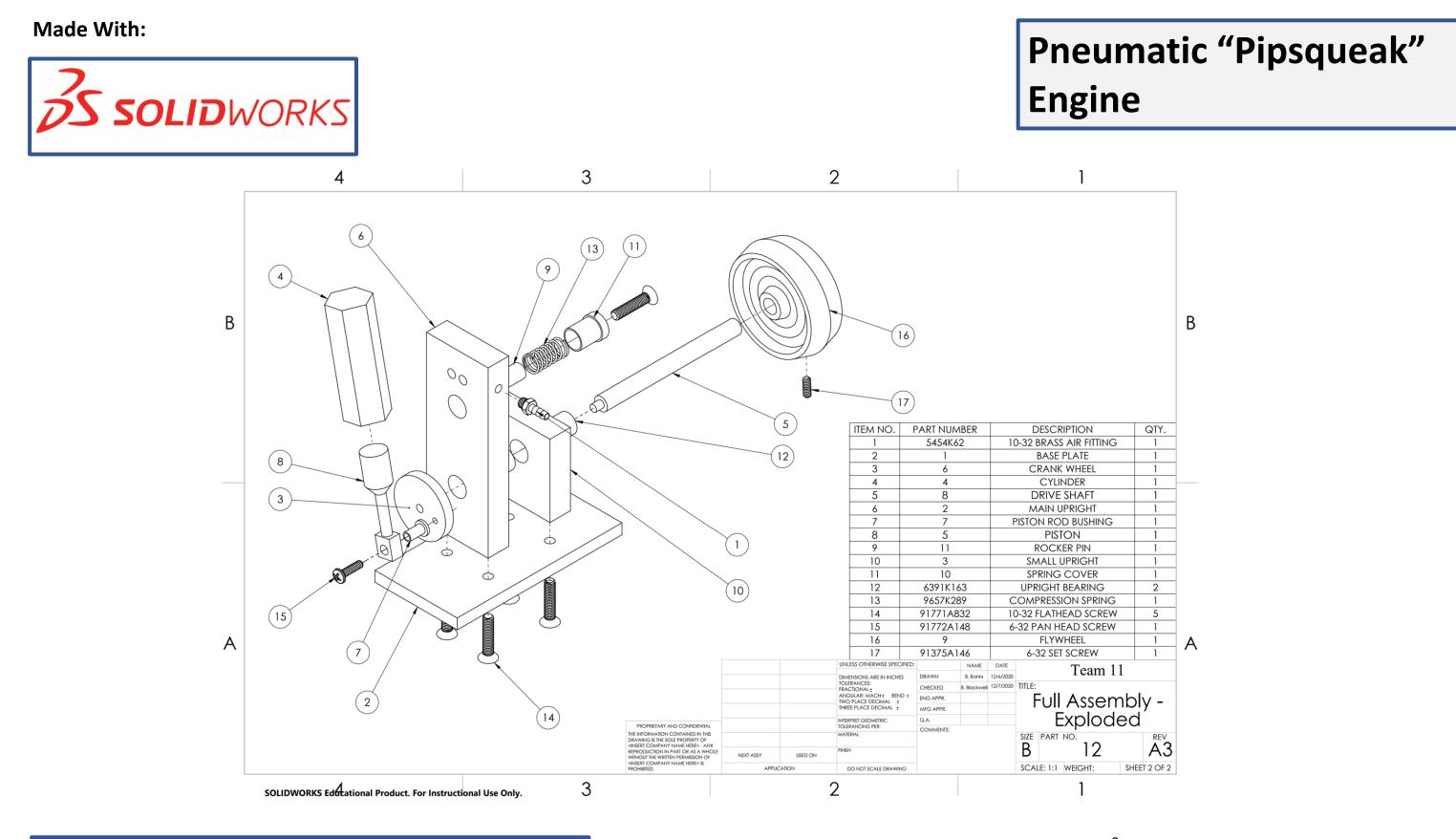




Mated Assembly & Exploded Rendering

Pneumatic "Pipsqueak"

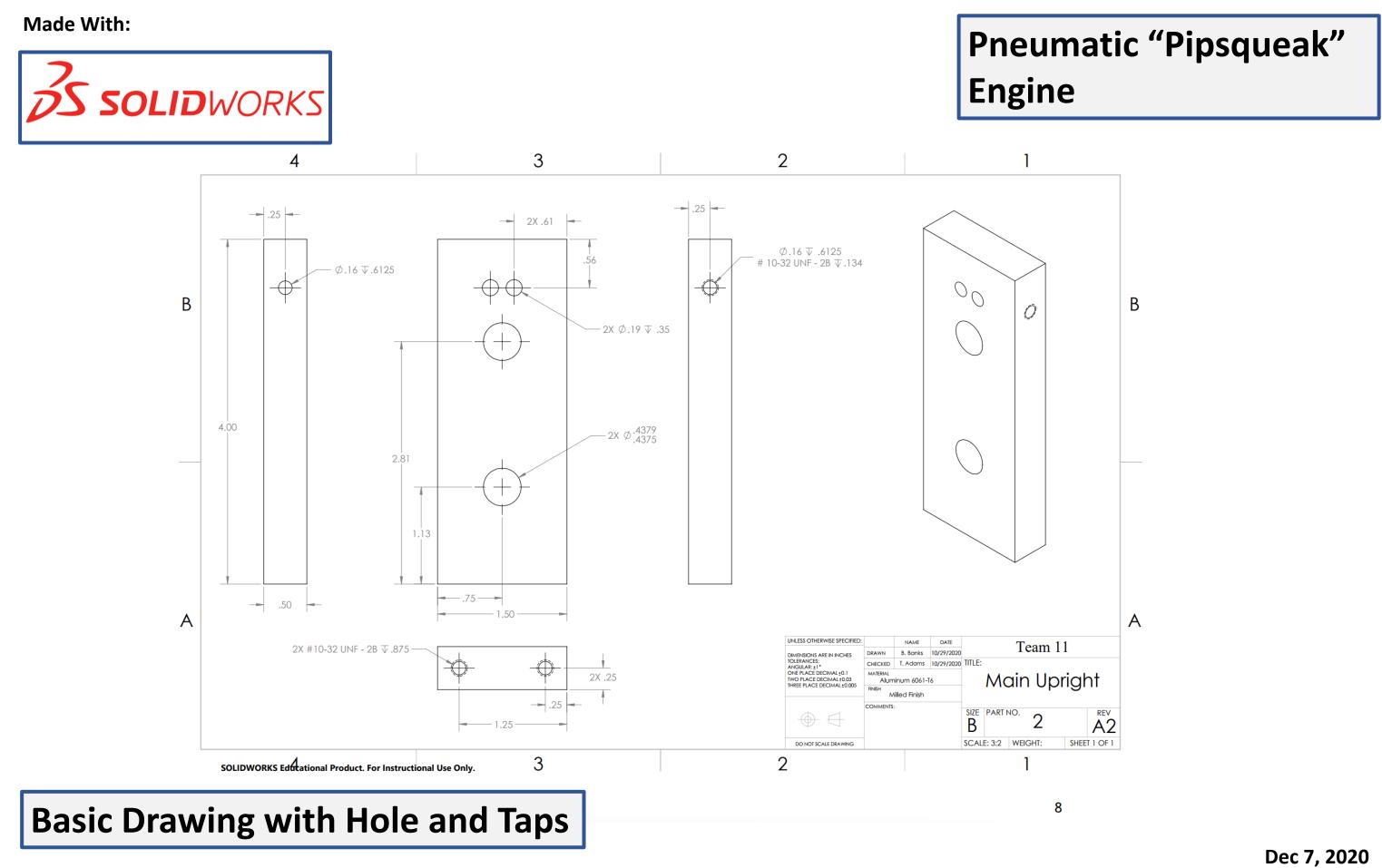
Dec 7, 2020

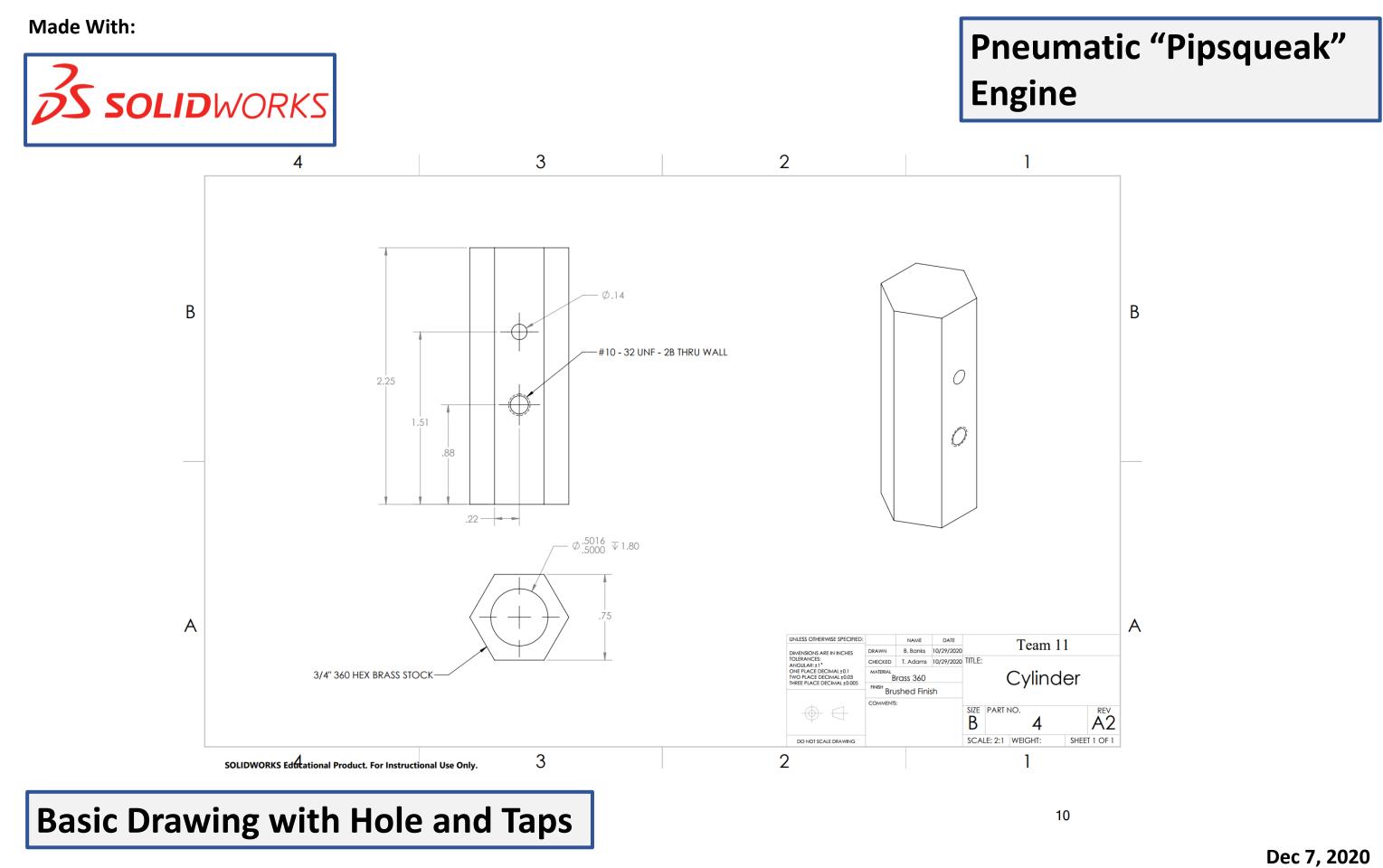


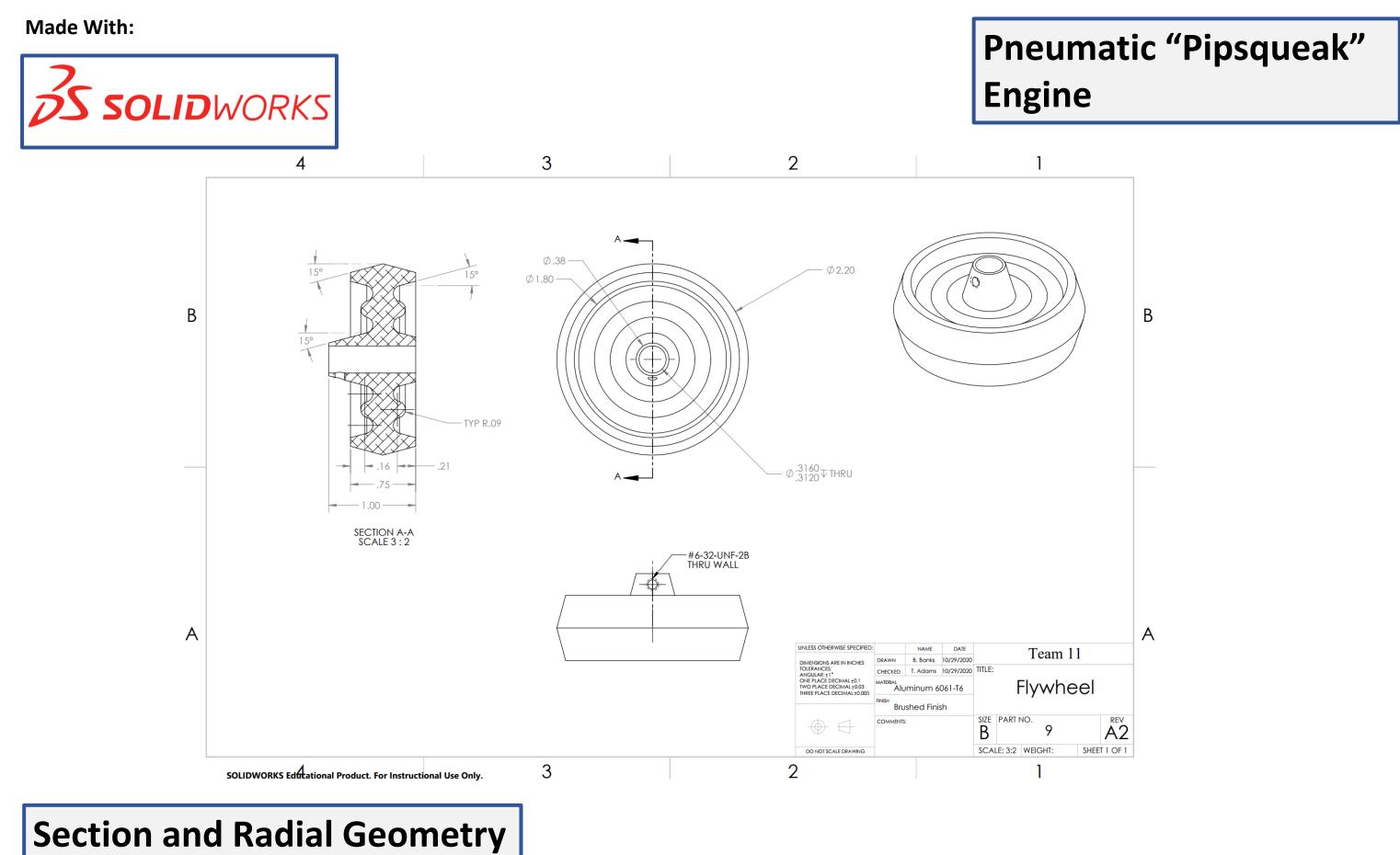
Exploded View & BOM Example

6

Dec 7, 2020





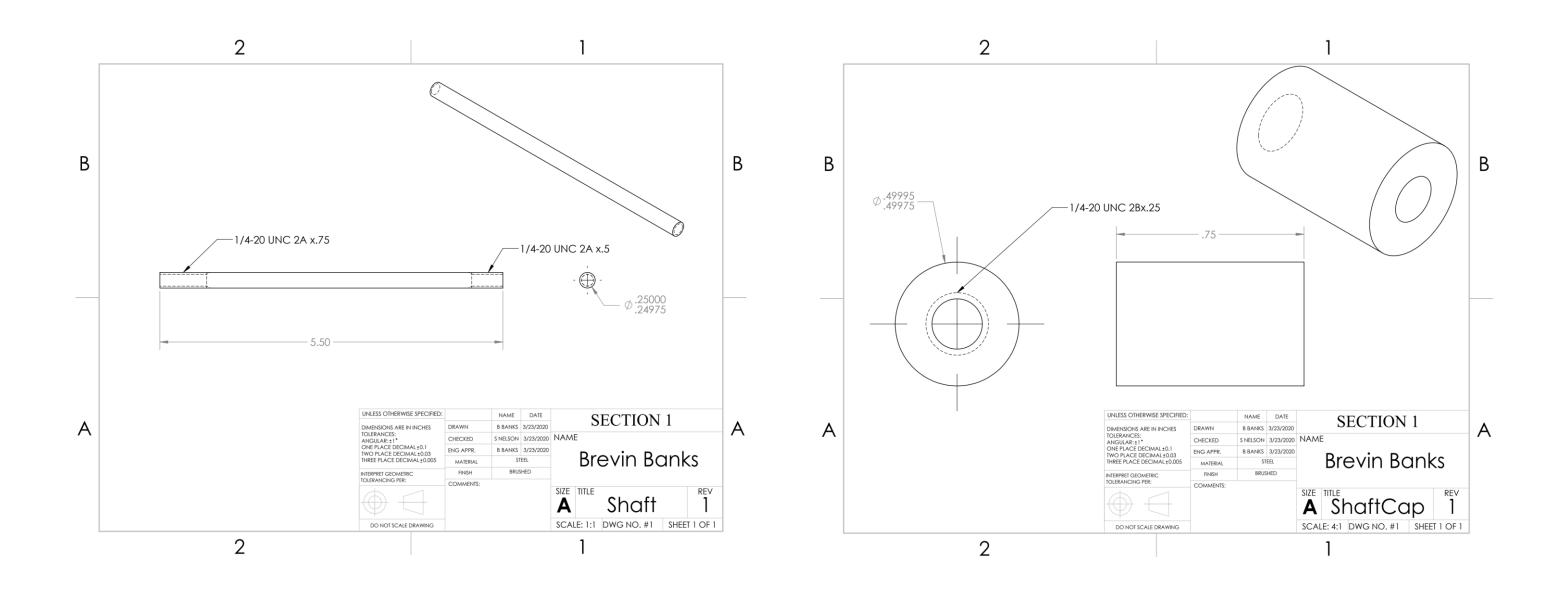


Dec 7, 2020



SOLIDWORKS





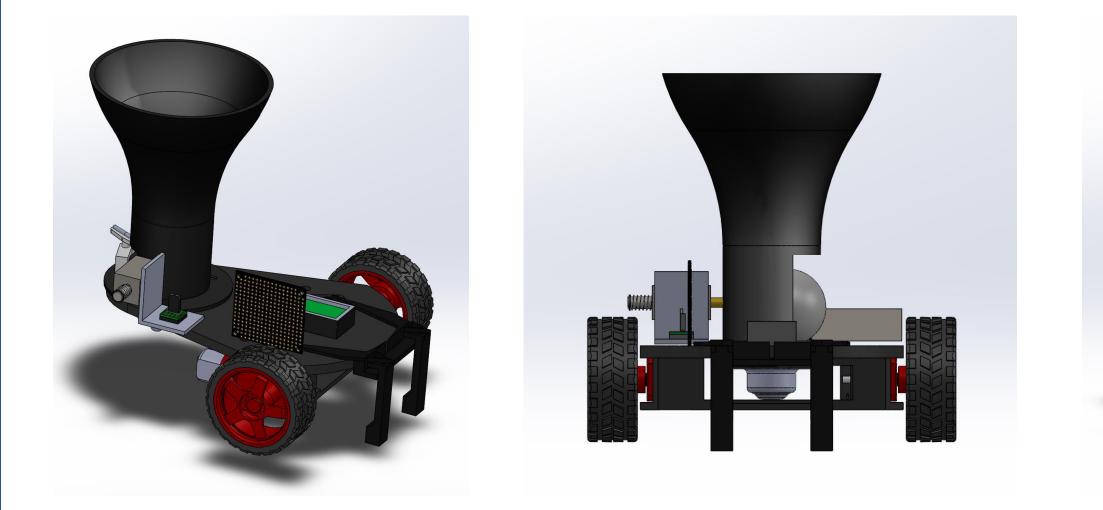
Hole and Shaft Tolerance/Fittings and Callouts

Pneumatic "Pipsqueak"

Mar 3, 2020

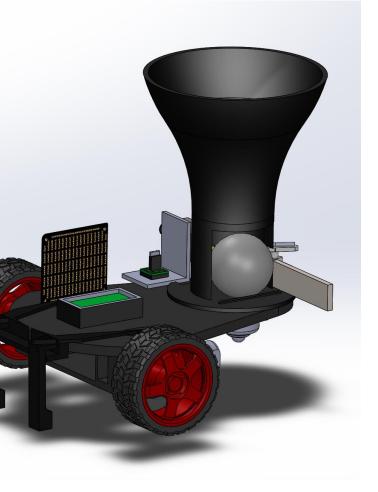






CAD Modelling for 3D Printing and Mechatronic Design

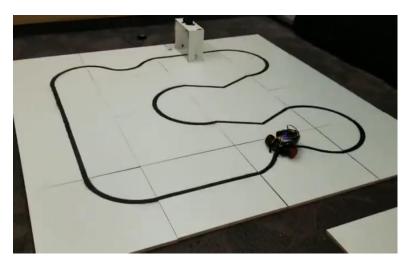
Line Following Robot

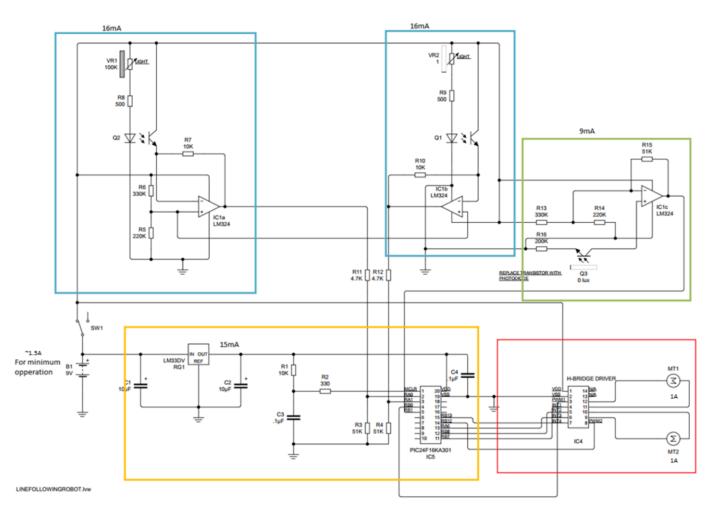


Dec 9, 2020









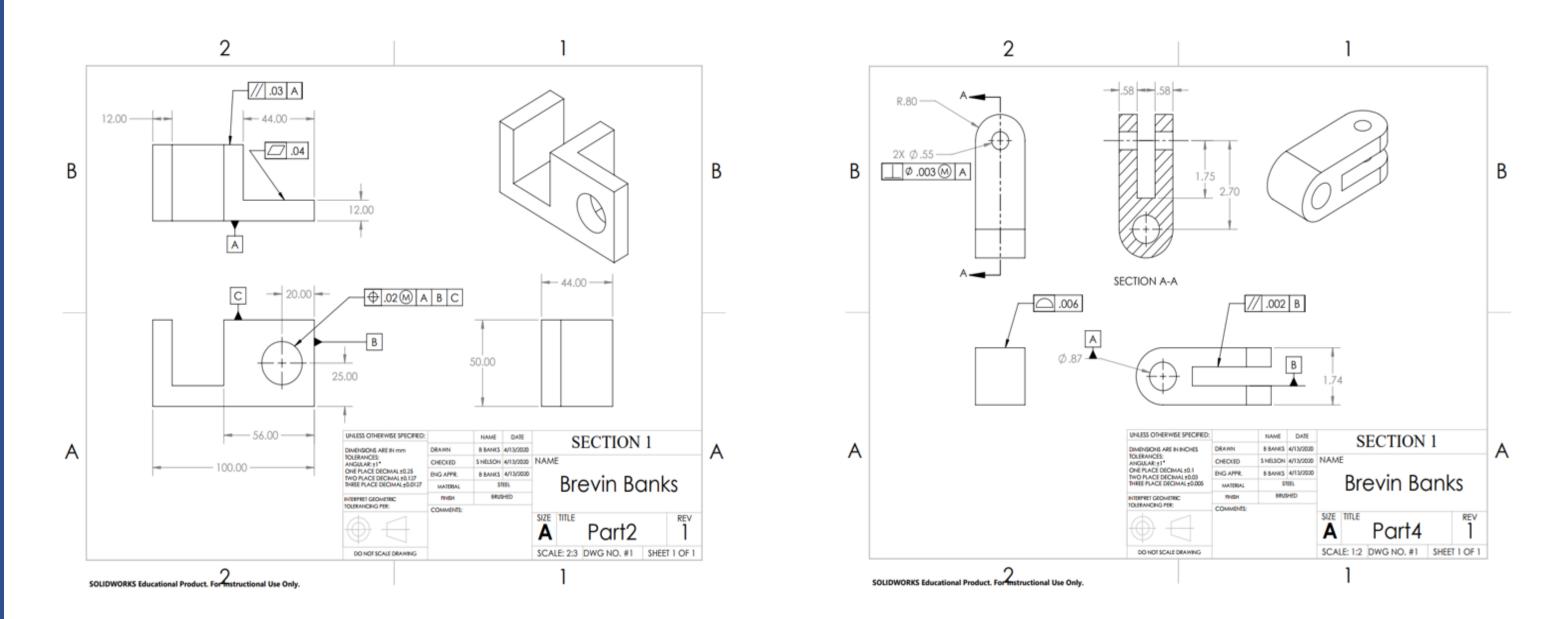
Manufacturing, Testing, and Electrical Schematics

Line Following Robot

Dec 9, 2020



SolidWORKS

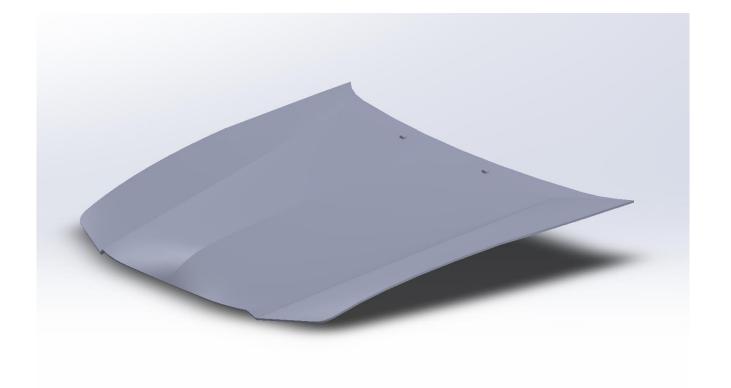


GD&T Callouts and Precision Modelling

GD&T For Fasteners

Apr 15, 2020







Surface Modelling

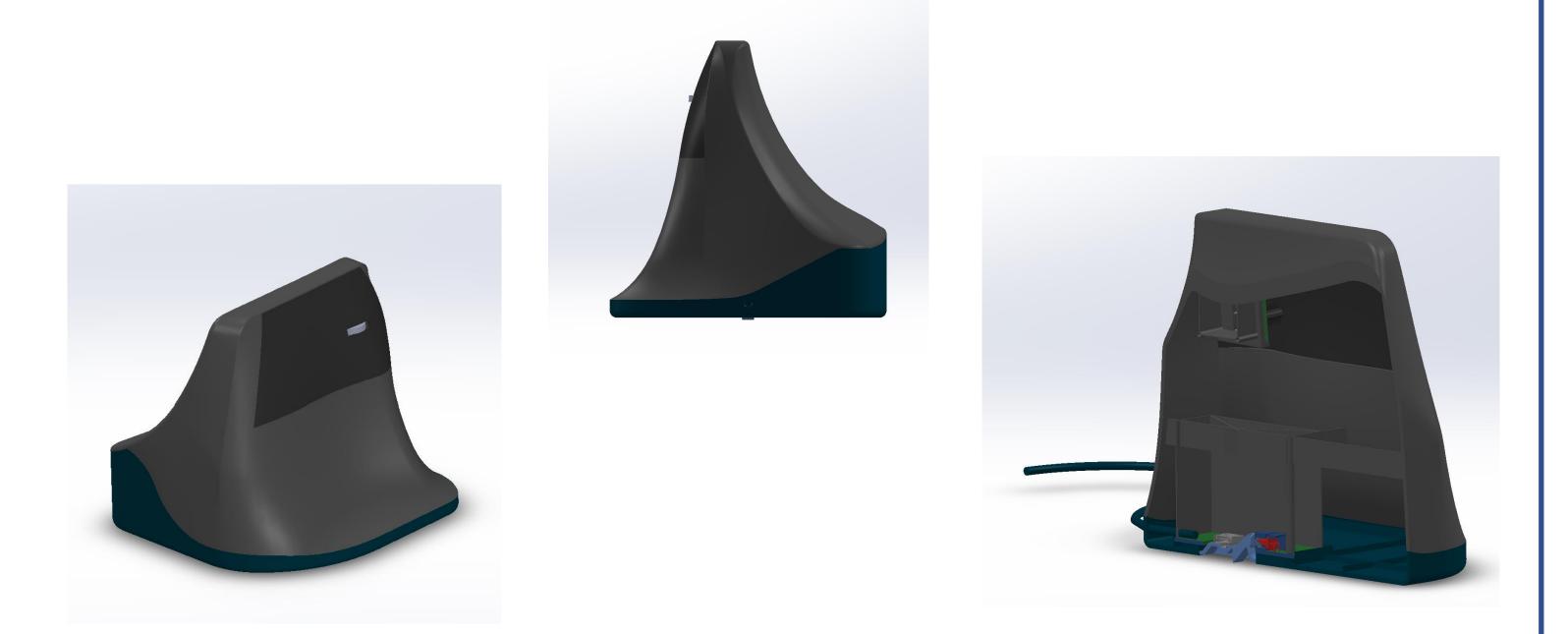
Car Hood Based on Real Car Model

Apr 15, 2020







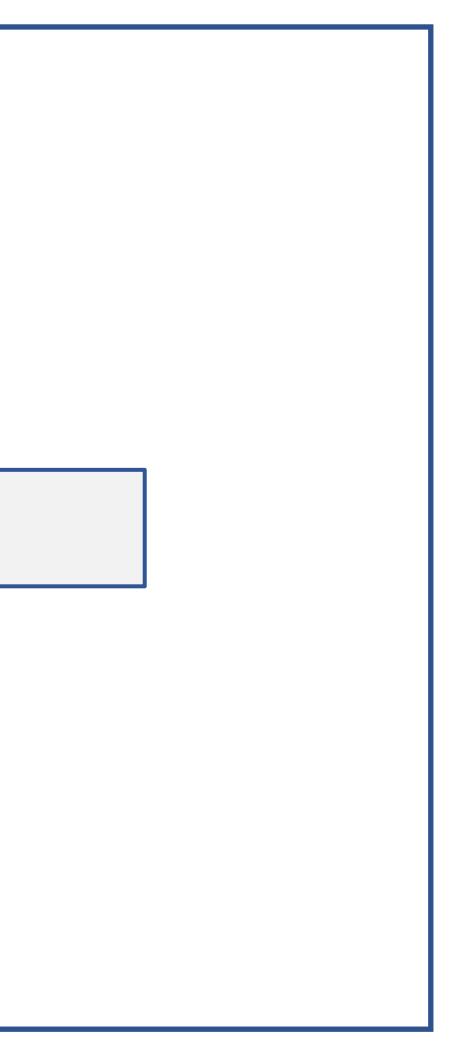


Ergonomic Design with Interior Electronics Support

Ergonomic Desktop Mouse

Mar 9, 2020

Other Designs









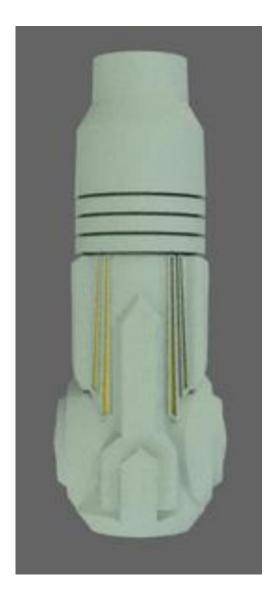
Simple Designs For Basic Control

3 DOF Robot Arm









Complex Surface and Aesthetic Designs

Futuristic Weapon

Aug 28, 2021