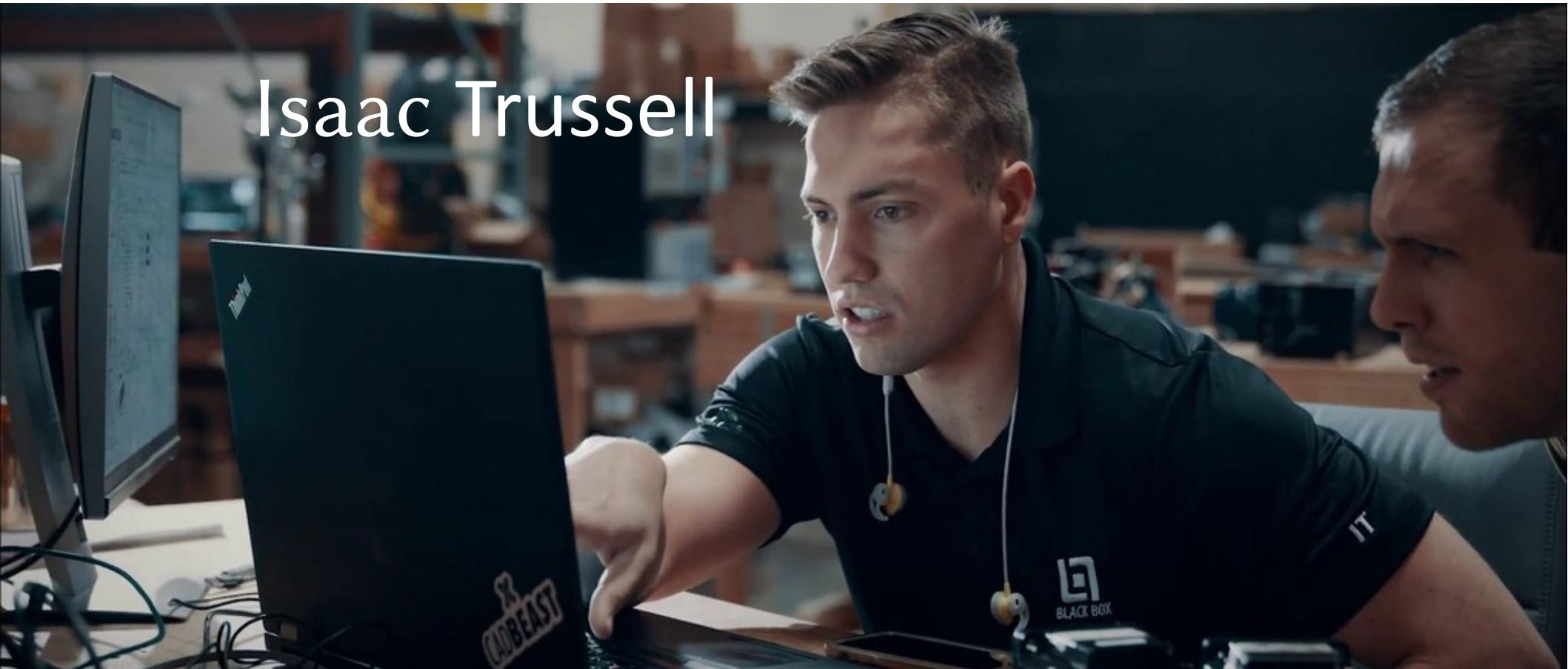


Isaac Trussell



Plastic Parts & Surfacing

Hart 5 Stud Finder

[Link](#)

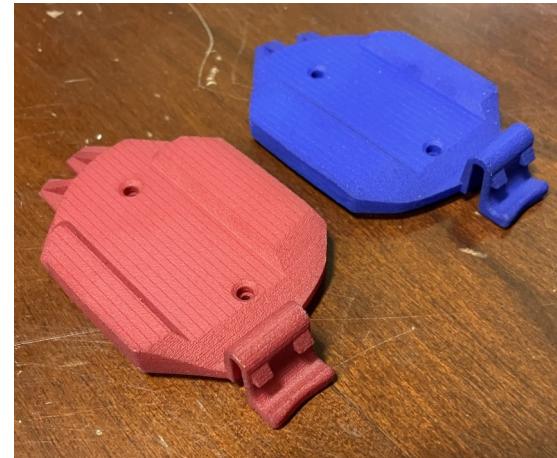


- Complete design on 4 parts, designed to fit existing button and PCB
- Collaborate with Sales team on concept
- Worked with Chinese injection molder for DFM and mold details
- Designed **Hart 1** until some non-aesthetic details and DFM



Black Box Fitness Parts

- Ball stop for cable resistance machine
 - Made for IM, but currently SLS
- VR Tracker Mount
 - SLS part. Adapted to off the shelf VR mount



Sheet Metal & Automation

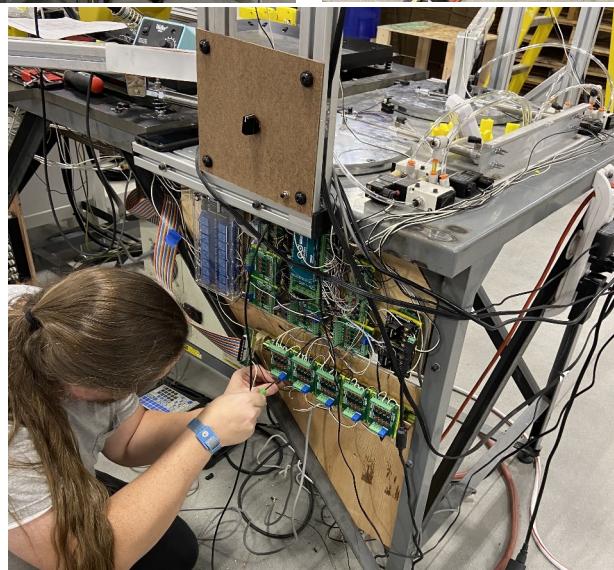
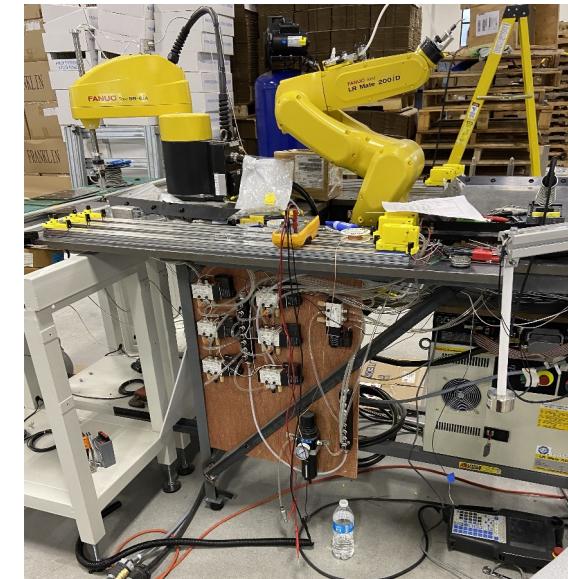
Black Box Fitness

- Fully automated cable resistance machine
 - 6 Axes of motion
- Bent and welded sheet metal
- Mapped and displayed to user in VR



Contact Robot

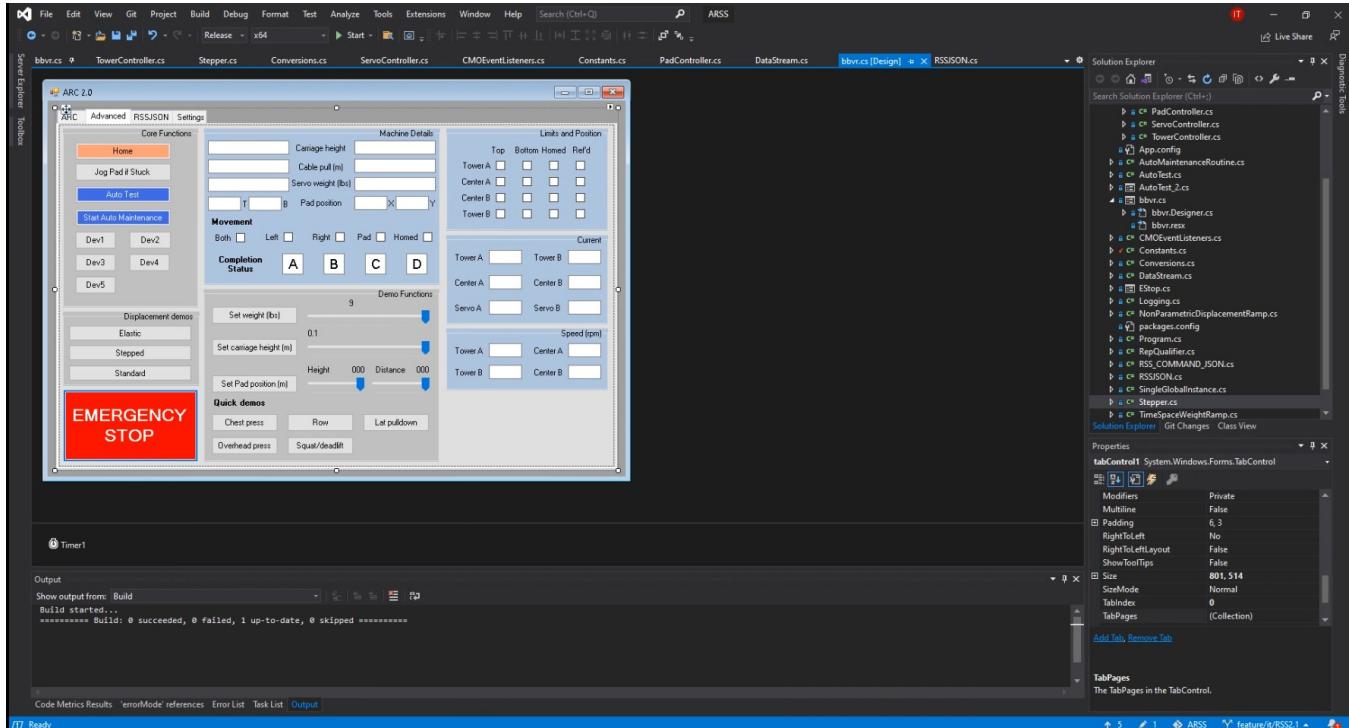
- Robotic System to place battery contacts onto PCBs
- 1 6 axis robot, 1 SCARA robot
- Pneumatic and electronic actuation



Software & Programming

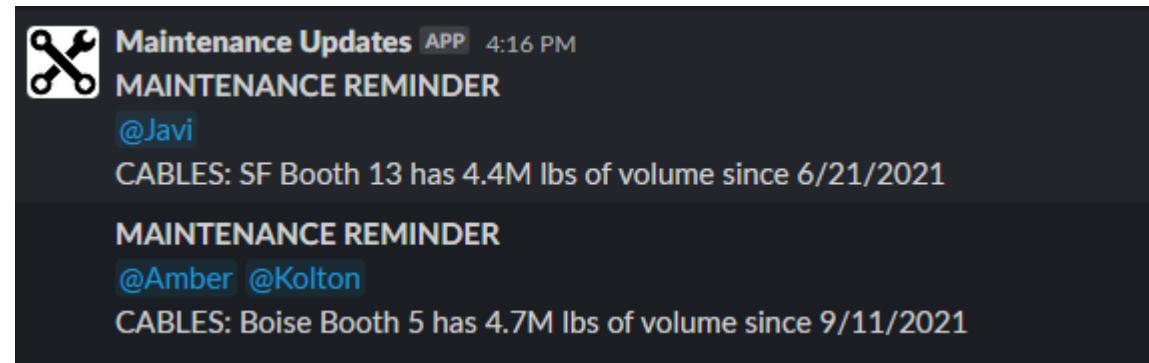
ARC Motion Control

- Product Owner of C# based motion control program for VR fitness machine
- Includes forward and reverse kinematics and communicates with VR game

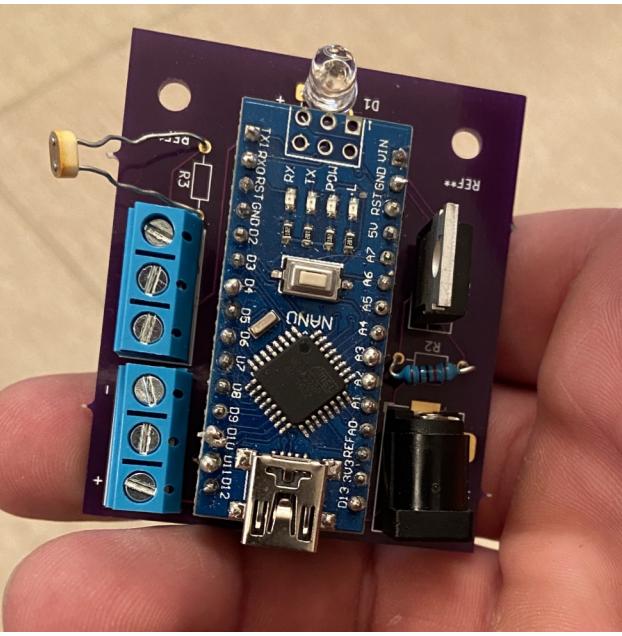


Auto Maintenance Updates

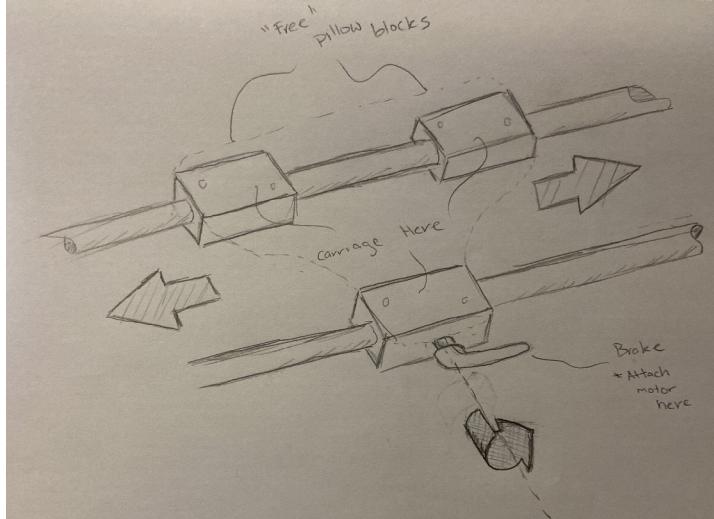
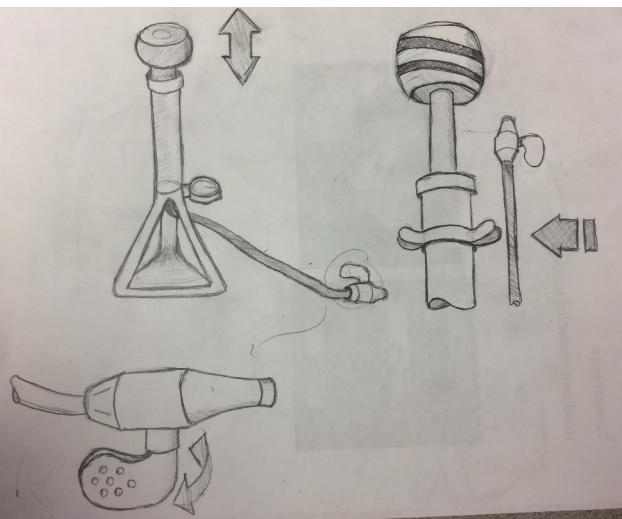
- Python program interfacing with multiple APIs to track usage on machines
- Integrated into Slack to send messages to stakeholders for maintenance to be performed.



Misc & Personal



Concepting & PCB





Cooking & Eating

Hobbies

Crossfit & Sports



Photography & Travel

