

PORTFOLIO · FALL 2026

Sawyer Scheiner

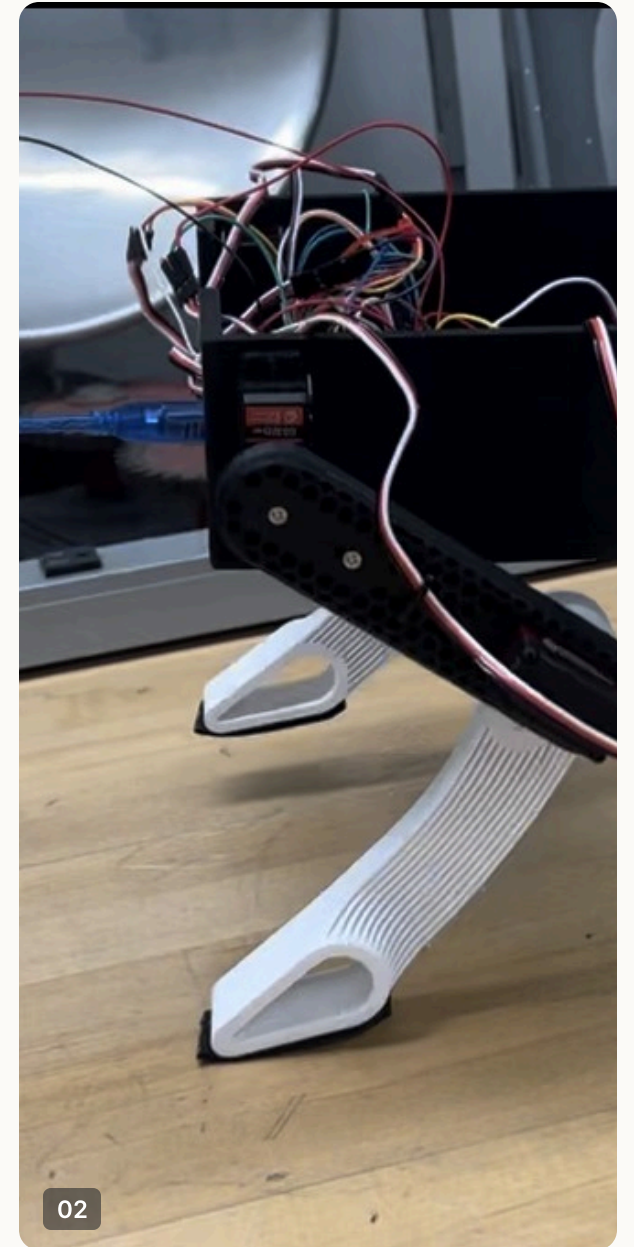
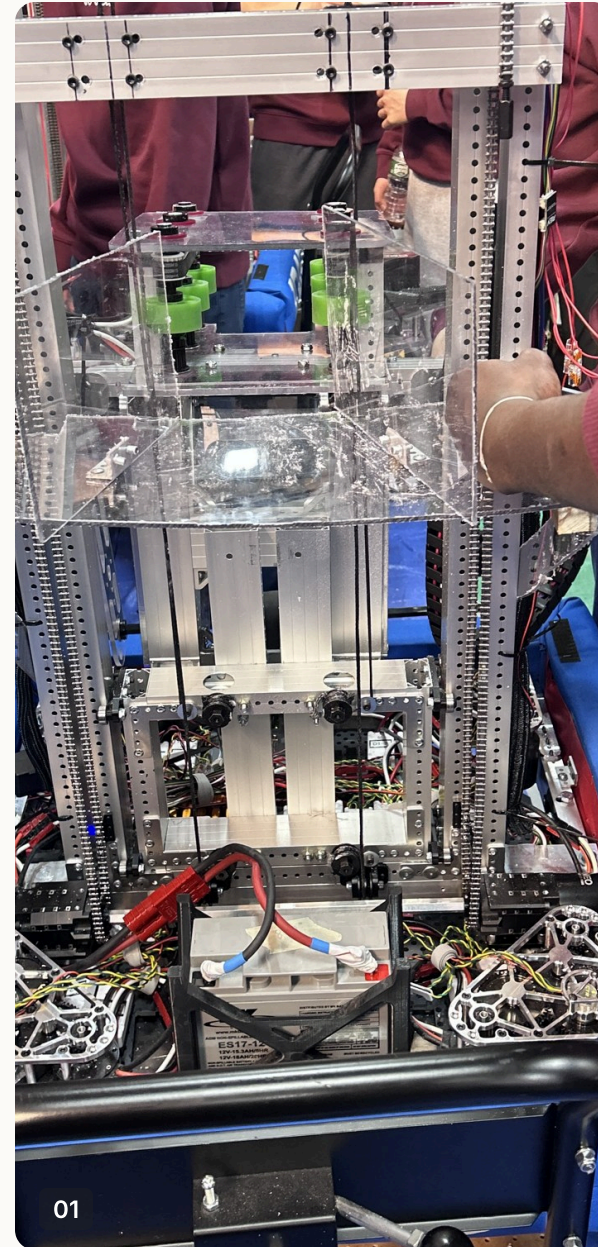
Mechanical Engineering, Vanderbilt University,
Class of 2029.

Things I have designed, built, and tested.

- 01 FIRST Robotics competition robot
- 02 Four-legged walking robot
- 03 Remy, an AI coach over iMessage

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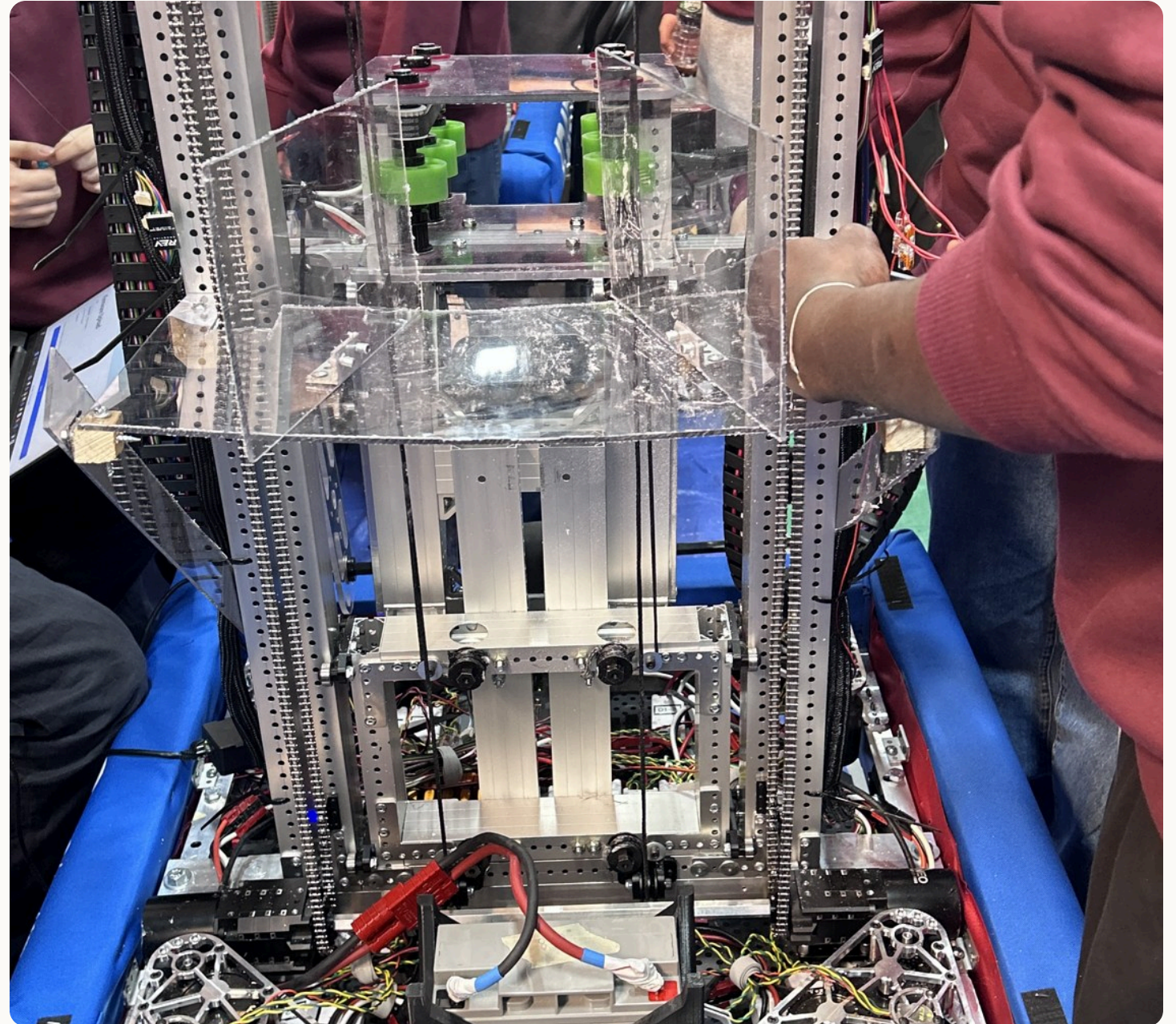


120 lb competition robot

Build & Test Lead · Horace Mann School · 2022 to 2025

- Led design and manufacture of a 36 in. by 36 in., 120 lb robot that picks up, carries, and launches game pieces.
- Designed fast-moving and load-bearing mechanisms in Fusion 360, then machined parts on a CNC mill and with shop tools.
- Ran the test cycle that caught failures before competition, and redesigned parts that broke.
- Trained and managed 8 underclassmen across mechanical, electrical, and testing.

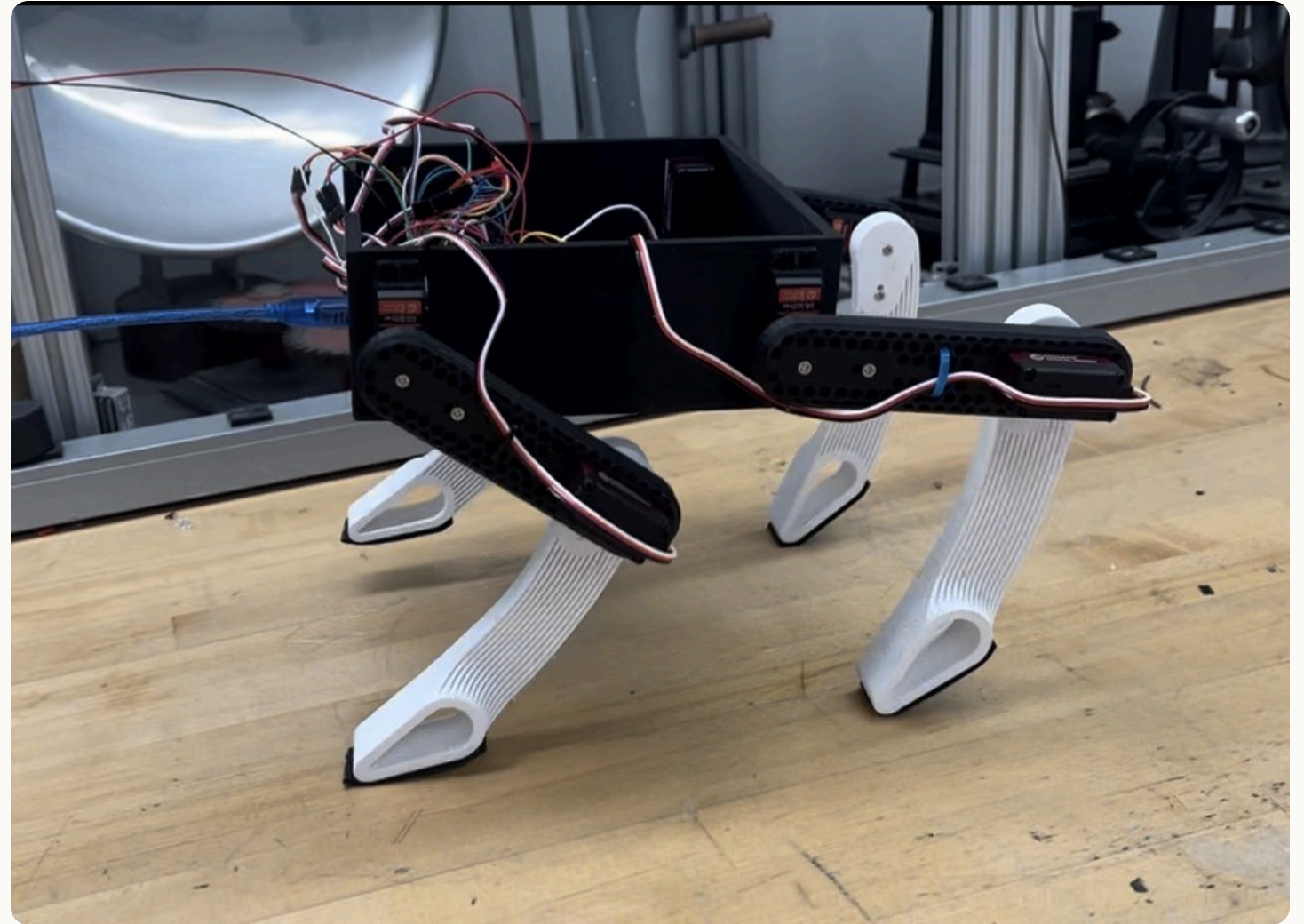
Tools · Fusion 360, CNC mill, manual machining, 3D printing



Four-legged walking robot

Summer 2023 · New York, NY

- Designed the body and legs in SolidWorks and fabricated them with 3D printing.
- Drove each leg with servo motors controlled by an Arduino.
- Wrote inverse kinematics for foot placement and programmed several gait sequences.
- Tested each gait and refined it for stability and smooth walking.



Tools · SolidWorks, 3D printing, servo motors, Arduino (C++)

03 · INDEPENDENT PROJECT

Remy, an AI coach that works over text

Sole designer and engineer · June 2026 to present ·
remyadhd.com

430 users
10,000+ interactions
357k content views

- Users text Remy to set goals, capture tasks, get reminders, and sync Google Calendar.
- Built the whole system alone: database, backend, payments, and web app, on infrastructure I host and maintain.
- When something breaks, I find the cause and fix it, and I log every failure so it does not come back.

Stack · Supabase (Postgres), LoopMessage, Stripe, Docker, Next.js on Vercel

