GREEN B SKETCH
MODEL: DAMPED STRETCHER

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Current stretchers are uncomfortable and the large forces they cause can exacerbate spinal and neck injuries.
THE IDEA: A DAMPED STRETCHER
‘Typical’ Stretcher Demonstration
The Damped Stretcher

A proof of concept that damping could significantly reduce forces
Test Subject: There’s a palpable difference between the two—damped, despite the hard backboard, is more comfortable.
If you’re worried about resonance... don’t. Frequency of someone walking: 2 Hz; natural frequency of our dampers: 1.2 Hz.
BENCHMARKING

The Talon Stretcher: Foldable, Undamped, and $1000

Poleless Stretcher: “You might as well just use a poncho”
BENCHMARKING

Damped, but by no means portable
MARKET DATA

- 40,000 ambulances in the U.S.
- 4,500 hospital emergency rooms
- 12,000 spinal cord injuries per year—and most have to be transported by stretcher
- 10,000 Army combat vehicles

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FUTURE PROBLEMS

- Lightweight
- Portable
- Reduce impact with ground
- Damping in multiple directions