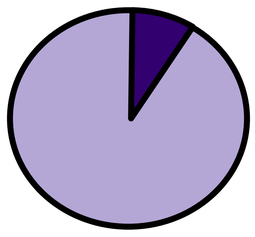
PushStart

*When every minute matters, all you need to do is **PushStart***

Sudden Cardiac Arrest

350,000+
OHCA cases yearly in the US



<11%
global survival rate

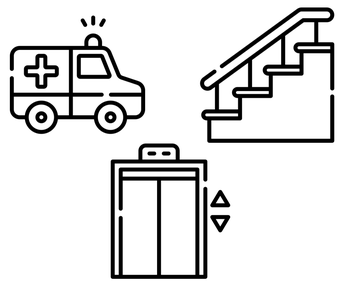
For **80%** of cases, the heart rhythm is non-shockable (AED is ineffective)

Highly trained first responders can only perform CPR for
2 minutes

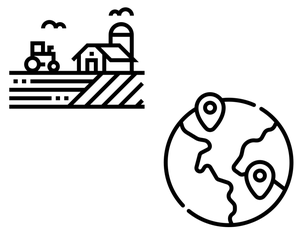
Why Mechanical CPR?

Chest compressions even where first responders are **unable** to do so or would be **harmed:**

Patient transport



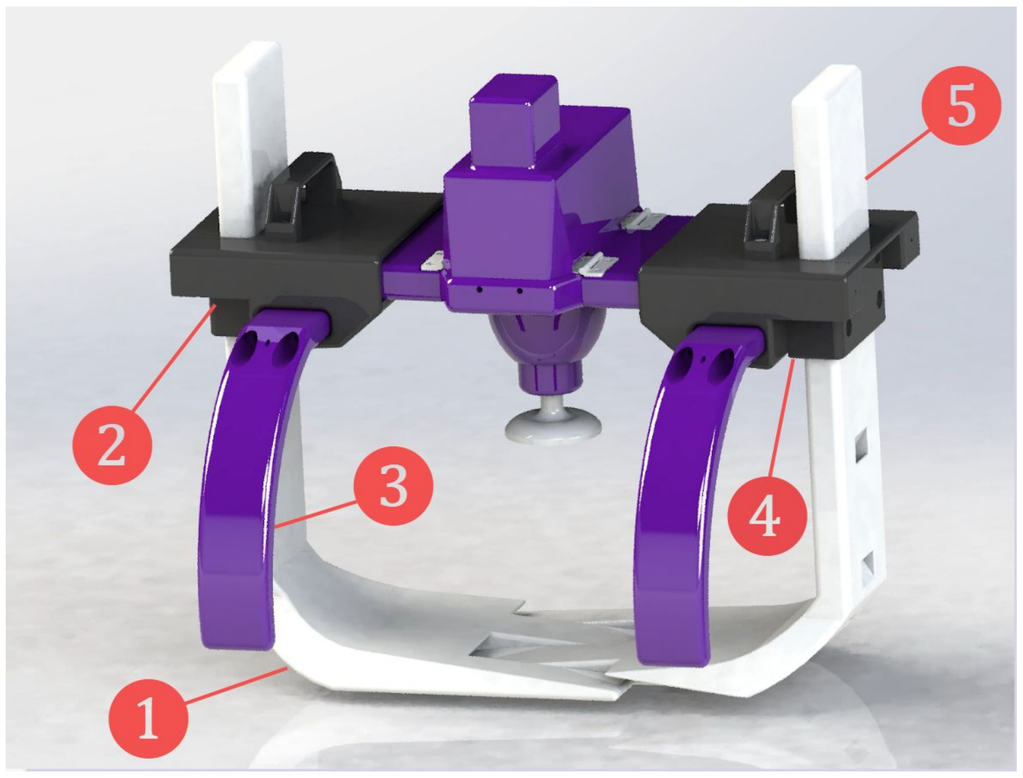
Rural & under-developed areas



Extended CPR
(>30 minutes)

ONLY 5% of first responders have access to a mCPR device in the US!

Our Product



Fastest Application Time: 7.43 sec

1. **Easy Application**
2. **Size Inclusivity**
3. **More Security**
4. **AED and IV Compatibility**
5. **Rapid Removability**

Chest widths:
12.3” - 22”
Chest heights:
4” - 11.4”

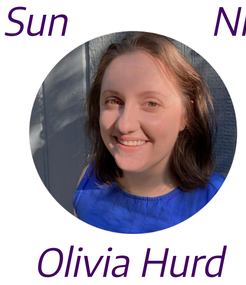
15+  **=** **PushStart + 2** 

Team


Dylan Sun


Nina Mao


Eric Jeong


Olivia Hurd

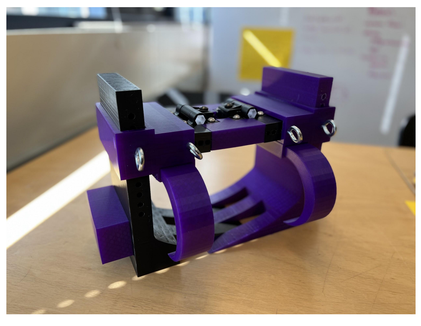

Sara Schultz

With mentorship from:

Dawn Jorgenson
Ed Kompare

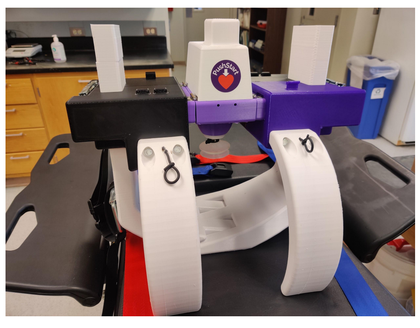
Per Reinhall
(Professor of Mech. Eng.)

Our Progress



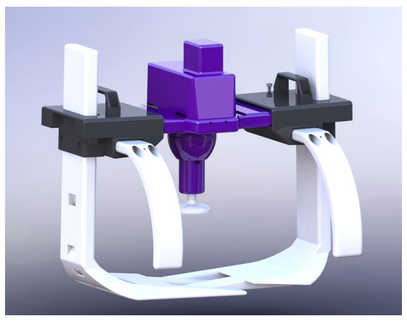
Prototype Mk.I

- Half-scale
- Proof of concept



Prototype Mk.II

- 1st full-scale
- Usability testing



Prototype Mk.III

- 2nd full-scale
- Optimized for weight