



- What is Dragon Boat Racing?
- Dragon Boat is a team sport with 20 paddlers and 1 drummer
- Races are typically 200 m or 400 m

## Motivation

- QL+ paired us with local US Marine Veteran, Gary Verrazono. Gary lost his right arm and leg but still loves staying active, especially through dragon boat racing
- Gary's current paddle has two primary problems:
  - 1. Painful to use
  - 2. Inhibits paddling form
- To improve Gary's dragon boat experience, our team was tasked to create an improved paddle for Gary

## Requirements

- ✓ **Safe**  $\rightarrow$  Removable in under 15 seconds
- $\checkmark$  **Comfortable**  $\rightarrow$  More comfortable than Gary's old paddle when ranked on a scale of 1-10
- $\checkmark$  **Durable**  $\rightarrow$  Withstands water and UV exposure
- ✓ **Portable** → Fits within 45''x10''x4'' envelope
- $\checkmark$  Lightweight  $\rightarrow$  Weighs less than 3 lbs
- $\checkmark$  Easy to Use  $\rightarrow$  Easily operatable with one hand
- $\checkmark$  **IDBF Standards**  $\rightarrow$  Does not provide additional energy and follows modification limitations

\*IDBF – International Dragon Boat Federation

**Ideal Paddling Form Gary's Old Paddling Form** Comfort Rated at 3/10 Based off Competitive Racer "*It feels great man."* – Gary Verrazono "One of the coolest things with this paddle is it allows [Gary] to use a standard dragon boat paddle rather than modifying the equipment." - Calli Roers

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## Dragon Boat Paddle Assist

Bringing Independence to Paradragon Athletes

Abigail Angwin | Anthony Digilarmo | Antonio Graham | Anna Hughes | Nathaniel Rivera | Percy Smith





