

Lightning Talk

TEAM **SDMAY26-40**

Requirements

&

Engineering
Standards

Our Team



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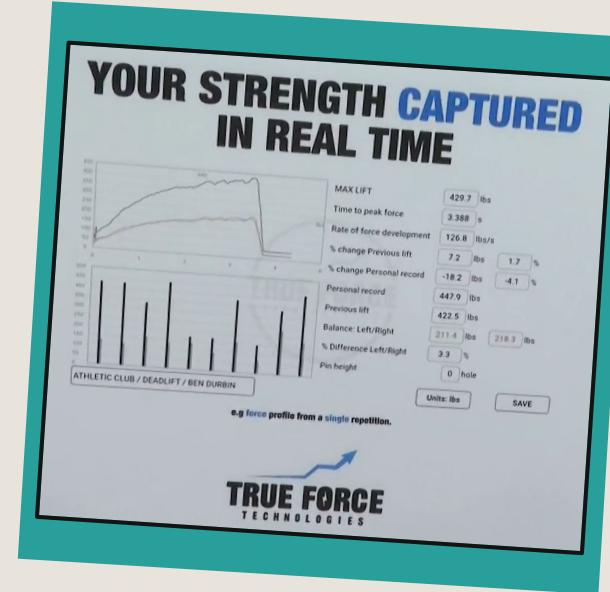


Colin



Fadi

Project: True Force Technologies Arcade Weight Rack



Our goal:
Turning lifting data into an arcade game

Requirements

01. **Bluetooth** Transferring data from the weight rack to our app
02. **Game Functionality**
03. **Customizability**

Requirements

01. **Bluetooth**

02. **Game Functionality**

Taking that data and using it to run an arcade-style game

03. **Customizability**

Requirements

01. **Bluetooth**

02. **Game Functionality**

03. **Customizability**

Adding simple customization options for companies

Constraints

01. **Bluetooth Dependency** Data transfer must use built-in Bluetooth protocol.

02. **PC and Tablet comparable** User interface needs to be both an app and a website.

Standards

ISO 9241-210 (Human-Centered Design for Interactive Systems)

Helps ensure the arcade game interface
is intuitive, safe, and user-friendly.



IEEE 828 (Software Configuration Management)

Provides guidelines for version control, change tracking, and ensuring software reliability in the game system.

IEEE 802.15.1 (Bluetooth Standard)

Ensures reliable wireless communication between the weight rack sensors and the mobile app.

THANK YOU!