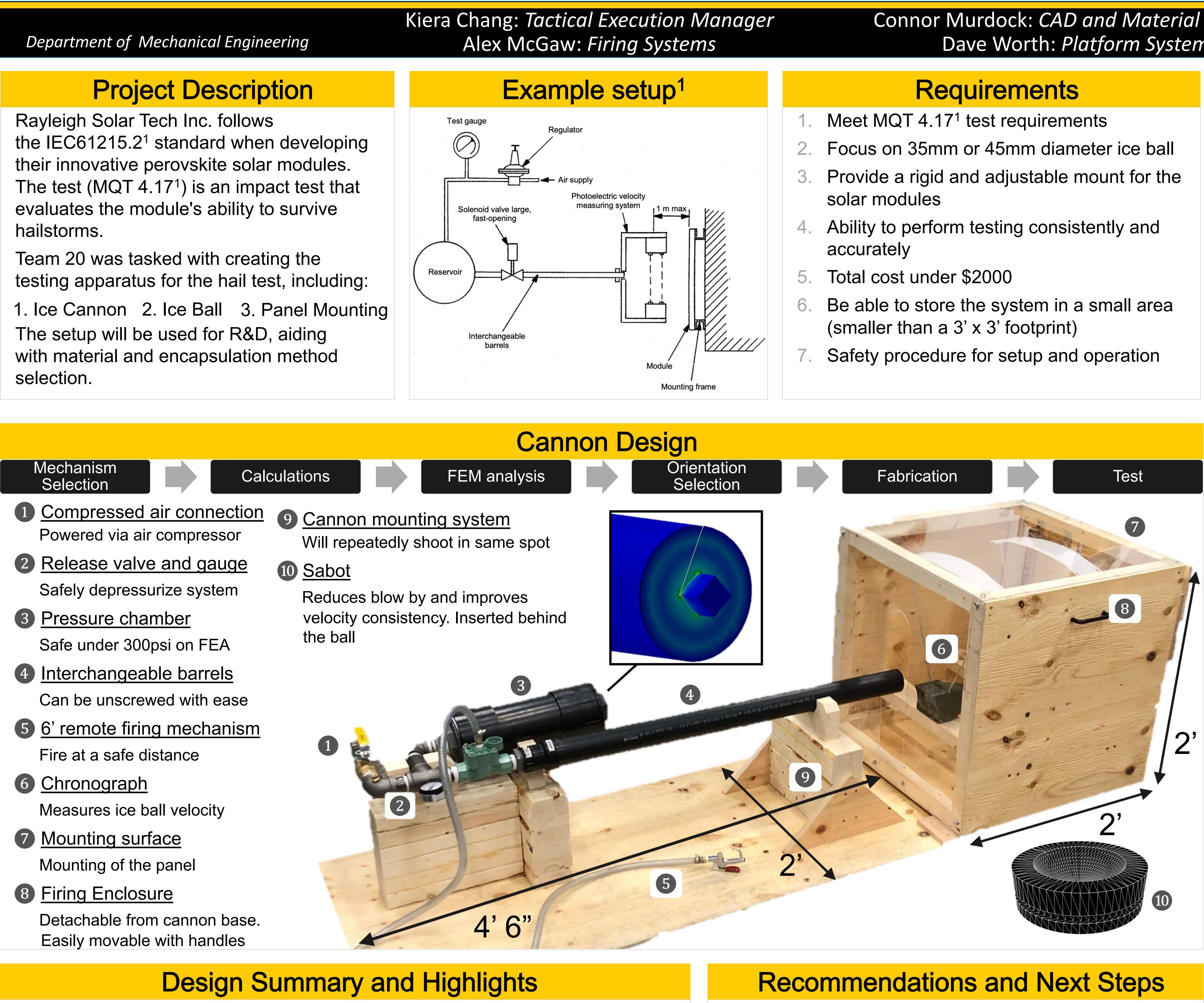
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FACULTY OF ENGINEERING

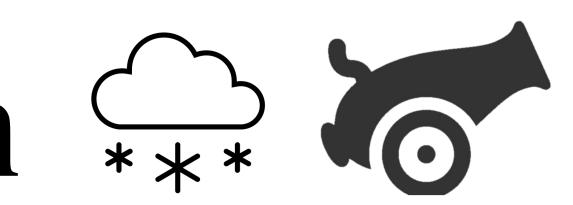


Total cost under \$1500. Design setup is portable, collapsible and adjustable. Provides support for R&D and saves money on impact and durability testing of solar modules before sending them to professional standard testing facilities.

- Interchangeable barrels
- Some highlights of the design are: 2. Easy to assemble and adjust 3. Operates on <100 psi air supply 4. Ability to operate from safe distance

Hail Cannon +**

- reliability
- Continue with other ice ball sizes 5.

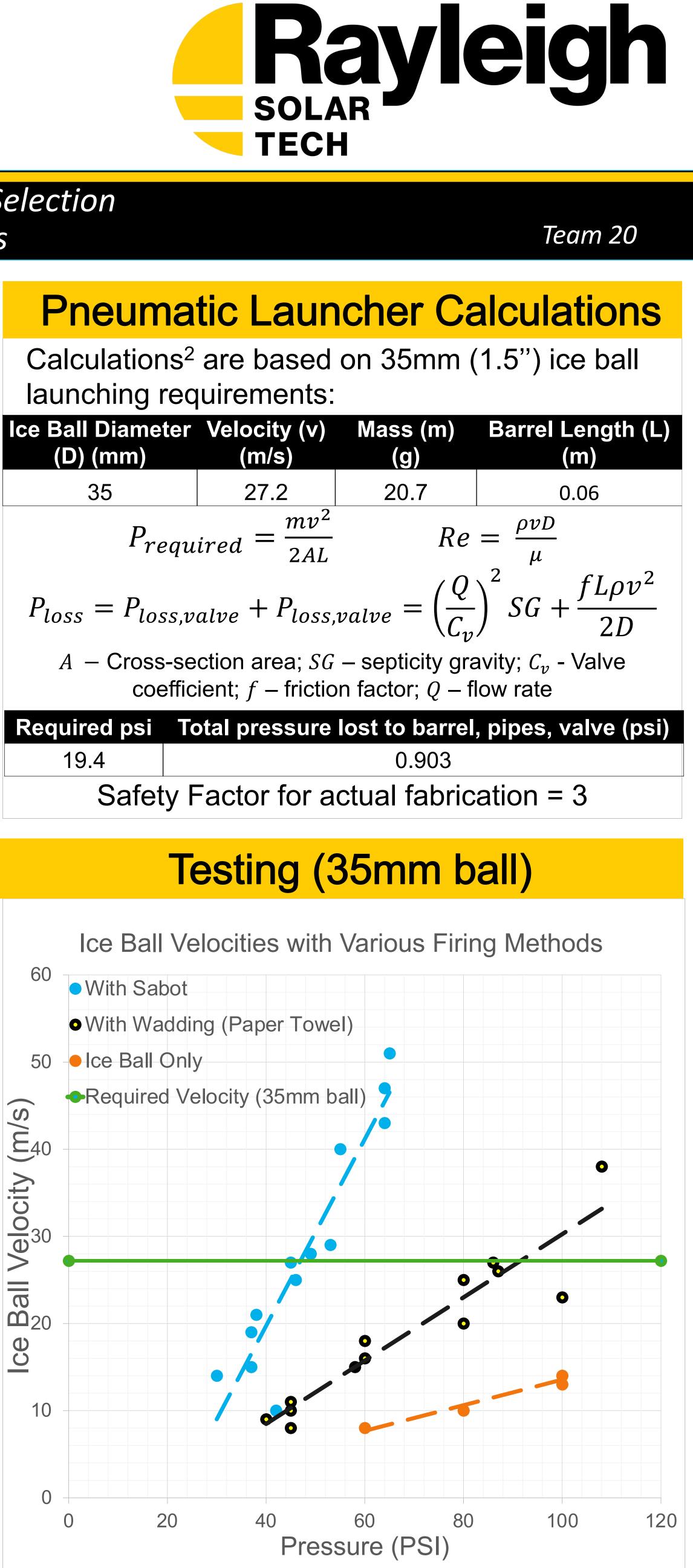


Connor Murdock: CAD and Material Selection Dave Worth: Platform Systems

(D) (mm)

$$P_{loss} = P_{loss,vali}$$

19.4



- IEC. (2016, March). IEC 61215-2.

Continue testing to optimize testing pressure Iterate sabot method to improve velocity consistency Insert LED lights into enclosure to optimize chronograph

Determine best storage location and orientation

Firing ice ball with sabot reaches required velocity at a much lower pressure

2. Linear approximation shows that 48 psi is required to reach 27.2 m/s using the Sabot

References

All pictures without reference are created or taken by the team

2. Yost, M., Martin, Z., & Odon, L. (2019). *The Design and* Fabrication of a Compressed Air Cannon.