

Objectives

Design and **build** a “fort” to host activities on and show off my living community at MIT

Complete construction in **3 days after ground-break**, a record construction time

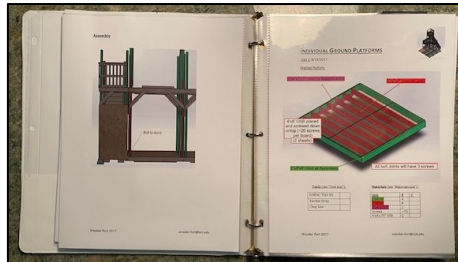
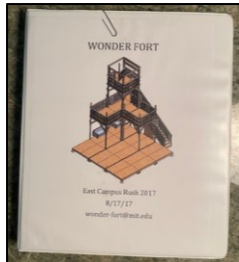
Develop a **design booklet** to guide best practices for a construction project

EAST ⚡ CAMPUS

Approach

Worked with a team of **three** others to design the fort and **10+** others to build it

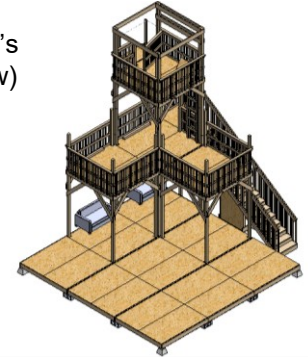
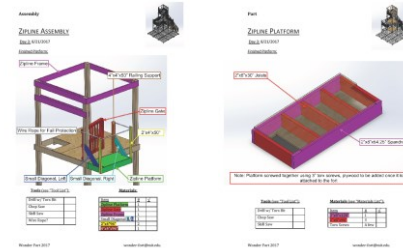
Used the design booklet to align the close team (3 members) and to guide the 10 others who helped construct it



Proof of Concept

Used SolidWorks to **model** the structure and **stresses** of key supports

Design was **reviewed and approved** by MIT's in-house architects (example drawings below)



Results

Completed construction in 3 days with the team, breaking the record

Successfully developed and used the instruction booklet

Passed on best practice of using construction book for future projects

