

MECHANICAL DESIGN

# Mechanical Design

By Nathan M (1678), Maya S (701),  
Zach H (1678), Lydia W (1481), Alex B (701)

FALL WORKSHOPS

## Team 701

- Alex Burghardt
  - Head of Design, Mechanical Member, 3rd year in FRC
- Maya Swift
  - Head of Manufacturing, Mechanical Member, 3rd year in FRC

## 701 - Mechanical Design Basics

- Haas TM2P, Mini Mill, and Shopbot used in shop for custom parts
- Information is relayed through the use of google forms and physical work order forms containing part information
- Design Standards and CAM templates ensure that our work is consistently meeting our expectations

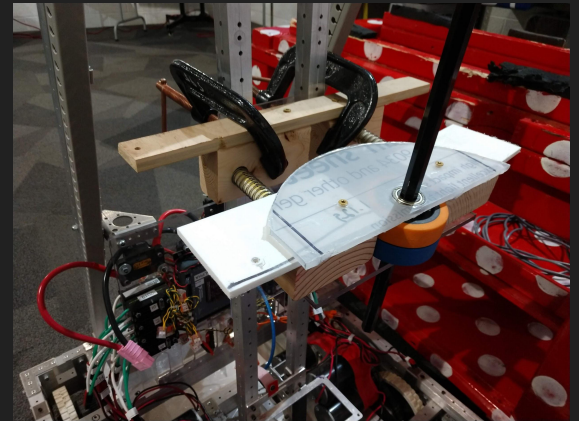


# Team 1481

- Panelist: Lydia Walsh
  - Mechanical Lead, Human Player, 4th year in FRC

## 1481 - Mechanical Design Basics

- Weekly Design Review that all members of the team attend to communicate plans and designs to everyone
- Gantt Chart is used to track completion of subsystems and overall progress
- Fabrication and electrical students are also a part of the design process so all subteams provide input into the design

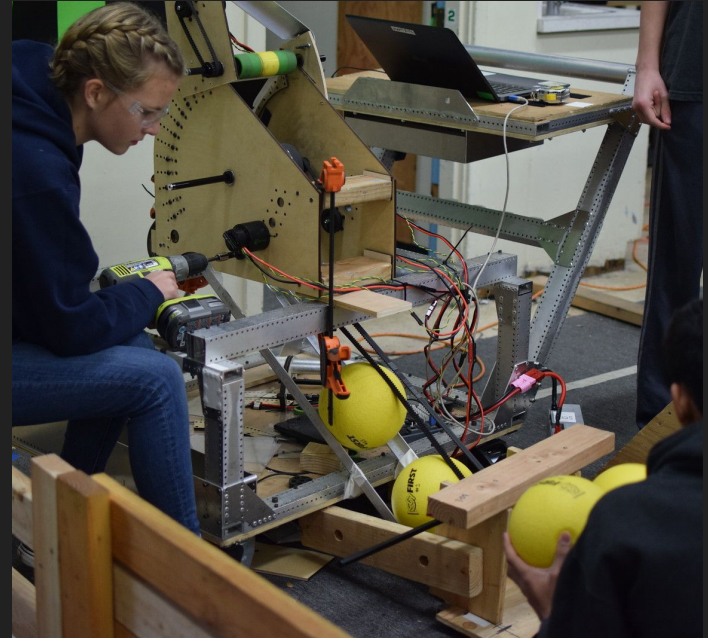


## Team 1678

- Zach Hoblit
  - Designer, Human Player, 3rd year in FRC
- Nathan McAllister
  - Design Lead, Robot Operator, 4th year in FRC

## 1678 - Mechanical Design Basics

- All hardware subteams involved in prototyping (lasts ~2 weeks depending on the mechanism)
- Prototyping teams communicate with design students, who work on mechanism integration in CAD
- Design students use tracking spreadsheet and part drawings to communicate with fabrication subteam



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# Q&A Session

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