FIRST Tech Challenge
Coaches, Mentors
November 2022
FTC Competitions

Agenda

Saturday Morning - Introductions, What is *FIRST*?, Building Game, Robot Resources

Saturday Afternoon - Wiring, Programming Robots (software choices, tensorflow, FTC Sim, Programming help, real robots)

Sunday Morning - FTC Events, Judging, Engineering Portfolios,

Sunday Afternoon - *FIRST* Software, REV Hubs, Q&A, Competitions, PowerPlay Game

Agenda

- FTC Events

- Judging

- Engineering Portfolio

FTC Events https://www.firstinspires.org/robotics/ftc/event-experience

FTC Events

- Scrimmages

  Dec. 1-7
  Remote Scrimmage

FTC Events

- Scrimmages

- Leagues

FTC Events

- Qualifiers /
  Interleague Tournaments

  Jan. 19-25
  Remote Qualifier
  Judging on Jan. 21
  (virtual interviews)

FTC Events

- Regional Championships

Feb. 25/26
Provincial Championships
in Vancouver
for top teams from Qualifiers

FTC Events

- World Championships

Judging

- Half the teams advance based on Judged Awards

- Half the teams advance based on winning robot

Judging

- Interviews are usually about 10-15 minutes, but are longer for Remote events to make sure any technical issues can be sorted out.

- Teams have the option of presenting in the first 5 minutes of the interview

- Judges ask questions for the remaining time

Judging - Awards   Game Manual 1 Chapter 9

Inspire

Think

Connect

Innovate

Control

Motivate

Design

Judging - Awards   Game Manual 1 Chapter 9

Compass - teams create 60 second video to nominate their coach or mentor.

Promote - teams create 60 promotional video about *FIRST*.   *"How I learned about FIRST"*

Dean's List - teams nominate up to two gr 10 or gr 11 students.

Engineering Portfolios

An engineering portfolio is a short and concise summary of the Team's engineering journey throughout their season.

- include sketches, discussions and Team meetings, design evolution, processes, obstacles, goals and plans to learn new skills,

- each Team member's concise thoughts throughout the journey for the season

The engineering portfolio is like the Team's CV or resume.

POWER⚡PLAY

PRESENTED BY
Raytheon
Technologies

FIRST
TECH
CHALLENGE

Engineering Portfolios

Maximum of 15 pages plus a cover page

Make it easy for the Judges to read it and see the info the team is most proud about!

Lots of examples online.
https://img1.wsimg.com/blobby/go/ab905967-e3a7-48b7-bfdf-607fce7a7a9b/downloads/Robo_Sapiens_-_Engineering_Portfolio_Ultimate_.pdf?ver=1623429008842
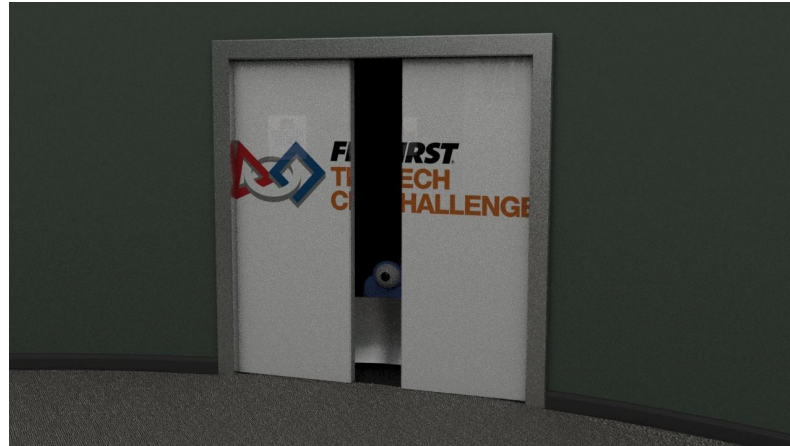
Engineering Portfolios

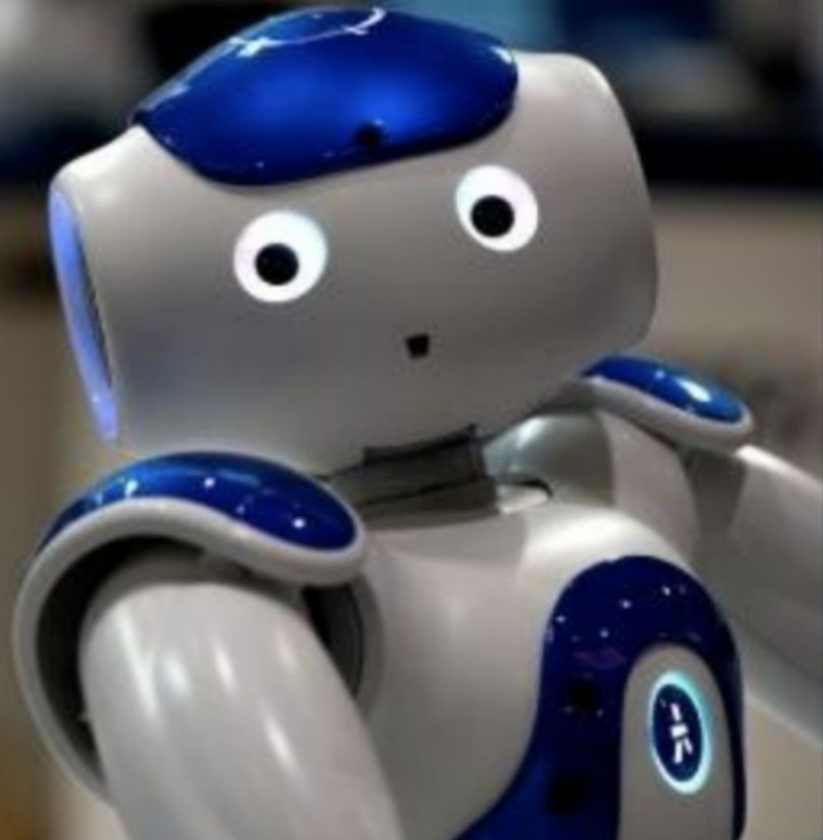Teams can create their portfolio using any software they choose!

Often teams use something like google docs to keep notes throughout the season.

CANVA is free software to create a professional looking document.

Questions