Engineering Portfolio Workshop

JP, judge advisor

Tabatha, judge

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Engineering Portfolio

- Description and requirements in [Game Manual part 1, traditional events](#) section 9.2
  - Description 9.2.2
  - General requirements 9.2.4
  - Requirements by award 9.2.6 (minimum requirements)
- Award descriptions
  - Section 9.5
  - Covers what we look for in each award, including content in portfolios
  - Portfolio has no single ideal format or balance between awards
    - The portfolio describes your team's journey this season (after New Mexico State Championship 2023)

Portfolio Review

Portfolio Guide, Team 16091, TWCA

- https://twcarobotics.files.wordpress.com/2023/01/engineering-portfolio-resource-for-first-tech-challenge-teams-v1.0.pdf

Examples used in tonight's discussion

- https://digitalcommons.imsa.edu/cgi/viewcontent.cgi?article=1004&context=cii_dsw
- https://twcarobotics.files.wordpress.com/2023/05/2022-2023-worlds-engineering-portfolio.pdf
- https://maniacmechanics.weebly.com/uploads/1/3/2/0/132089891/20230114_portfolio.pdf

Think Award

- Section 9.5.2, game manual part 1

This judged award is given to the *Team* that best reflects the journey the *Team* took as they experienced the engineering design process during the build season. The engineering content within the portfolio is the key reference for judges to help identify the most deserving *Team*. The *Teams* engineering content must focus onthe design and build stage of the *Team's Robot*.

The *Team* must be able to share or provide additional detailed information that is helpful for the judges. This could include descriptions of the underlying science and mathematics of the *Robot* design and game strategies, the designs, redesigns, successes, and opportunities for improvement. A *Team* is not a candidate for this award if their portfolio does not include engineering content.

Required Criteria for the Think Award:

- *Team* must show respect and *Gracious Professionalism*® to everyone they meet at a *FIRST* Tech Challenge event.
- *Team* must submit an *Engineering Portfolio*.
- *Engineering Portfolio* must have engineering content. The engineering content could include entries describing examples of the underlying science, mathematics, and game strategies in a summary fashion.
- The *Engineering Portfolio* must provide examples that show the *Team* has a clear understanding of the engineering design process including examples of lessons learned.