

Don Brobst, PMP®  
FRC Workshop  
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George Mason High School

- Don Brobst
  - Mentor FRC 1418
  - Former FIRST Senior Mentor for Washington, DC
  - PMP Certified
  - Requirements, Risk and Process expertise

- Project Management Institute (PMI)
  - Is dedicated to Project Management as a professional discipline
  - The PMI Book of Knowledge (BoK) was used to support many of the concepts and terms used in these slides and provides extensive details if interested
  - NVCC, GMU, GWU, UMD et al have classes
  - <http://www.pmi.org/>

- Project management is the application of resources to execute projects effectively and efficiently.
  - Skills
  - Time
  - Money
- How many of you manage your build season?
  - Why or Why not?
- How many wish you were more effective and efficient?

- Project Management has 5 general processes
  - Initiating
  - Planning
  - Executing
  - Monitoring and Controlling
  - Closing

Tailor and adapted  
to your needs

- What factors will drive tailoring and adapting to meet your project needs?

- Team Characteristics
  - Large
  - Small
  - Adult Led
  - Student Directed
  - Veteran
  - Rookie

- Schedule
  - Start
  - Finish

# Build a Schedule

- Requirements
  - Complex
  - Simplistic
  - Explicit
  - Implicit
  - Derived

- Quality
  - Fulfills Requirements
  - **Competitive and functional Robot**

- Budget
  - Robot Budget
  - Travel and Food
  - Tee Shirts
  - Travel
  - Lodging

- Communications - 1
  - Who are your stakeholders?
    - Schools admin
    - Parents
    - Mentors
    - Team Members

- Communications - 2
  - What do they want to know?
  - When do they want to know it?
  - What do you want to tell them?
  - How do you communicate with them?
  - Who else do you need to communicate with?

## ■ Configuration Management

- Why do CM?
- Who does CM?
- Who does not do CM at some level?
- Any issues in not doing CM?

## ■ Risks

- What are risks?
- How do risks differ from a problem?
- What do you do about risks?
  - Avoid
  - Mitigate
  - Back-up plans

# Questions & Answers

- Contact Info
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# Thank You!

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