

## Post-Mortem

### 1. What Worked

- Drive Team - tactically & strategically
- Autonomous - kinda lucky
- Pivot switching
- Bridge arm / balancing 1 & 2, with pivot
- ball pickup
- FMS laptop
- bumpers
- Lift system (beaterbar to shooter)
- tach & PID
- L/R aiming
- thinking in pivot
- no programming issues
- scripts
- programming team help
- up and down both ways on the bridge
- Bumpers

### 2. What Didn't

- barrier drive (not tested)
- autonomous consistency
- tool organization & pit process
- training on the new shooter numbers
- BB drive falling off = pulleys deeper
- Slow shooter speed change - try full on/off
- extra people
- scouting

- documenting/labeling parts and mechanisms with problems

### 3. What Needs Improvement

- pivot changes - practiced & documented pivot changes

### 4. Actions - Philly

- get students out of the pit, let them play outside
- talking to judges (engineering - part of pit qualification) [Sasha - questions, Clem - knowledge, Siri - practice]
- ranging for Philly: sonar for shooter distance [DJ]
- speed up shooter speed setting: try full on/off shooter PID [TBD, Gary]
- tune barrier crossing [Andrew, TBD]
- check tire pressure consistently, pump up before
- write-up for broken cRio to get replacement [Julie --> Clem]
- welding on pivots discussion [Ben, Keith, Gary, Clem, Siri]
- v groove pulley with polycarbonate [Ben, Molly]
- record actual script times [Patrick, Julie]
- Buy more polyurethane [Clem]
- beaterbar fixing - little big, little beat - switch to something... [Gary, Clem, Siri]
- Camera image for ball pickup, (internal?), balls under bridge [Gary - procurement, DJ, Siri]
- put in on blocks!! [Faith]
- repair broken pivot [Molly]
- get rid of autonomous fossil in shooter PID [Julie]
- change lift belt spare (64:1)
- polycarbonate lift U centers [Molly]
- practice [Andrew, Sasha, Siri]
- fix Victor creep [Scott]
- button box [Mike, DJ] - dropdead Saturday @ noon
- fix barrier [Gary]
- different tread material [Gary]

## 5. Actions - Off-Season

- drive train project with mechanical [
- judge questions while building in build season
- programming with ocelot
- counting pulses
- talk to judges (all awards - part of the pit qualification)
- improve chairman's and other outreach