4001A website

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1   Drive System

- Development of six motor turbo drive
- IMEs
- Evolution from 4 motors to 6 motors
- Use of hot-swap motors template
- How drive system is used in autonomous sequence (brief overview, see third section)

2   Lift Systems

- Development of current two motor lift
- Evolution from chain bar lift to current four bar
- Evolution from snapper claw to roller claw
- Pneumatics vs. current motor based mobile goal
- How mobile goal will be used in autonomous (brief overview, see third section)

3   Code

- Evolution of drive system control code (raw values to precision control, arcade drive, and smart motor library arcade drive)
- Code management and workflow
- Autonomous ~~plan for match~~
- Evolution from single controller to dual controller setup

4   Awards and People

- Excellence Award at Sarah Heinz House VRC Qualifier
- Tournament semifinalist at Sarah Heinz House VRC Qualifier
- Judges Award at Harriton VRC Qualifier
- Members and people we need to thank