

**Team:** P16201 Tigerbot      **Engineer:** AJ Szklany

**Entering Phase:** II: Subsystem Build and Test

### **Phase II: Subsystem Build and Test Review**

1. Complete upper body design used for testing
  - a. requires knowledge of what EE equipment is required in upper body
    - i. Deadline: by Phase II Review
    - ii. Duration: 3 days
2. Decide on cradle/support used for robot testing and protection
  - a. requires an upper body design
    - i. Deadline: by Phase II Review
    - ii. Duration: 1 day
3. Assist Nick in final machining of leg components
  - a. requires initial machining of components
    - i. Deadline: Ongoing
    - ii. Duration: Spans multiple phases
4. Mechanical purchasing
  - a. requires a nearly complete build to determine what is needed to finish
5. Assist EE Team with any component testing
  - i. Duration: Entirety of phase

### **Phase III: Integrated System Build and Test Review**

1. Complete system assembly
  - a. requires complete machining of all elements
    - i. Deadline: by Phase III Review
    - ii. Duration: 3 weeks
2. Complete cradle/support used for robot testing and protection
  - a. requires complete assembly
    - i. Deadline: by Phase III Review
    - ii. Duration: 1 week
3. Assist Nick in final machining of leg components
  - a. requires initial machining of components
    - i. Deadline: by Phase III Review
    - ii. Duration: Spans multiple phases
4. Final mechanical purchasing
  - a. should be last mechanical orders
    - i. Deadline: by Phase III Review
    - ii. Duration: Entirety of phase
5. Assist EE Team with any electromechanical integration
  - i. Deadline: by Phase III Review

- ii. Duration: Entirety of phase

#### **Phase IV: Integrated System Build and Test with Customer Demo Review**

1. Assist team in system gait debugging
  - i. Deadline: by Phase IV Review
  - ii. Duration: Entirety of phase
2. Begin upper body design
  - i. Deadline: Ongoing
  - ii. Duration: Spans multiple phases
3. Begin mechanical documentation clean up
  - i. Deadline: Ongoing
  - ii. Duration: Spans multiple phases
4. Provide mechanical maintenance to system with on going testing
  - i. Deadline: Ongoing
  - ii. Duration: Spans multiple phases

#### **Phase V: Customer Handoff and Final Project Documentation**

1. Assist team in system gait debugging
  - i. Deadline: by Phase V Review
  - ii. Duration: Entirety of phase
2. Finalize upper body design
  - i. Deadline: by Phase V Review
  - ii. Duration: Entirety of phase
3. Finalize mechanical documentation clean up
  - i. Deadline: by Phase V Review
  - ii. Duration: Entirety of phase
4. Finalize mechanical portion of technical paper and poster
  - i. Deadline: by Phase V Review
  - ii. Duration: Entirety of phase