

Team: P16201 Tigerbot **Engineer:** Nicholas Shafarzek

Entering Phase: II: Subsystem Build and Test

Phase II: Subsystem Build and Test Review

1. Complete initial machining of leg components
 - 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. Complete final machining of leg components
 - a. requires initial machining of components
 - i. Deadline: Ongoing
 - ii. Duration: Spans multiple phases
4. Complete simulation of robot walking in Matlab
 - a. may require some assistance from robotics students
 - i. Deadline: by phase II review
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. Complete 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